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PRATT & WHITNEY
Voluntary Corrective Action Program
Progress Report for First Quarter - 2002

PREPARED FOR

U.S. EPA Region I
JFK Federal Building
Boston, MA

22nd Progress Report

April 2002



Loureiro Engineering Associates, Inc.

April 12, 2002

U.S. EPA New England - Region I

Mail Code HBT

One Congress Street, Suite 1100
Boston, MA 02114-2023

Attn.: Mr. Ernest Waterman

**RE: 22nd Progress Report
Pratt & Whitney Voluntary Corrective Action Program
LEA Comm. No. 68VA109**

Dear Mr. Waterman:

Please find enclosed four copies of our 22nd Voluntary Corrective Action Program Progress Report. As discussed, we will be submitting similar reports on a quarterly basis.

If you have any questions, please call me at (860) 747-6181.

Sincerely,

LOUREIRO ENGINEERING ASSOCIATES, INC.

Jeffrey J. Loureiro, P.E.
President

pc: Lauren Levine, United Technologies Corporation
David Ringquist, CT DEP
Manu Sharma, Gradient Corporation

**PRATT & WHITNEY
VOLUNTARY CORRECTIVE ACTION PROGRAM
PROGRESS REPORT FOR FIRST QUARTER 2002**

Prepared for

**U.S. EPA New England - Region I
JFK Federal Building
Boston, MA**

April 2002

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Figure 1 VCAP Timeline

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Appendix A Groundwater Investigation In Support of VCAP Risk Assessment (Step 4) – Pratt & Whitney, 400 Main Street, East Hartford, CT

ACRONYMS

CSM	Conceptual Site Model
CT DEP	Connecticut Department of Environmental Protection
EID	Environmental Indicator Determination
ETAL	Experimental Test Airport Laboratory
EPA	Environmental Protection Agency, Region I
LEA	Loureiro Engineering Associates, Inc.
LNAPL	Light Non-Aqueous Phase Liquid
RCRA	Resource Conservation and Recovery Act
TM	Technical Memorandum
TPH	Total Petroleum Hydrocarbons
USTM	Unit-Specific Technical Memorandum
UTC	United Technologies Corporation
VCAP	Voluntary Corrective Action Program
VOCs	Volatile Organic Compounds

**UNITED TECHNOLOGIES CORPORATION
PRATT & WHITNEY
Voluntary Corrective Action Program
Progress Report for First Quarter 2002**

1. INTRODUCTION

1.1 General

This Progress Report is the 22nd in a series of progress reports to be prepared and issued on a quarterly basis during the Voluntary Corrective Action Program (VCAP). The progress reports are intended to provide the Environmental Protection Agency, Region I (EPA) with an overview of (1) the work performed during the reporting period, (2) a look ahead at activities planned for the next reporting period, and (3) the progress of interim measures being implemented. The progress reports also serve as the vehicle for conveying minutes of the semiannual progress meetings with EPA and for summarizing key program issues that have arisen during the reporting period. The progress reports are not intended as a substitute for technical reports summarizing investigation and/or remediation activities, which will be prepared as appropriate throughout the course of the Program. Please see the individual site discussions for mention of any impending or submitted technical reports.

1.2 VCAP Schedule and EPA Comments

A revised VCAP schedule is provided in Figure 1. The completion date for achieving stabilization at the North Haven facility is projected to be June 3, 2002. The revised Environmental Indicator Determination (EID) documents were submitted in May 2001 and are awaiting EPA approval. Additionally, a revised draft EID for Groundwater Migration Under Control for the Willgoos facility was submitted on February 8, 2002. It is anticipated that EPA comments will be received during the next reporting period.

The completion date for stabilization at the Willgoos facility is currently projected as July 1, 2002. However, that date is dependent upon receipt of EPA comments to the revised EIDs submitted during this reporting period. It is anticipated that completion of stabilization activities at all facilities will occur by December 31, 2002. EPA comments were received on the proposed groundwater monitoring program for the North Haven site during this reporting period.

1.3 Semiannual Progress Meeting

No Semiannual Progress Meeting was held during this reporting period. The next meeting is planned for June 2002.



2. COMPLETED INVESTIGATION ACTIVITIES (LAST THREE MONTHS)

This section provides a brief description of the investigation activities undertaken at each site during the last three months. Maps showing sampling locations updated through the reporting period are provided in the Appendices along with laboratory analytical data tables inclusive of data received through the reporting period, as appropriate.

2.1 East Hartford

2.1.1 Klondike

EPA, United Technologies Corporation (UTC), and Loureiro Engineering Associates (LEA) have been working cooperatively in the preparation of the report for the Airport/Klondike area. For this reason, and to avoid duplication, no additional information is provided in this Progress Report.

2.1.2 Main Plant

Construction activities associated with the remediation of Willow Brook and Willow Brook Pond continued through this quarter. Activities completed during this reporting period included ongoing dewatering activities within the lower pond, wetland and stream channel areas; operation of two temporary groundwater treatment facilities; excavation and offsite disposal of an additional 31,250 tons (project total to date is 61,089 tons) of contaminated soil, sediment, and concrete, from within the limits of the lower pond, wetlands and stream channel areas; confirmatory sampling and documentary surveys; construction of the engineered control (cap) and related restorations within the lower pond and western portion of the stream channel; partial restoration of the marsh within the wetland area; and preparation of the third quarterly progress report detailing the above activities. A copy of the progress report was delivered to DEP and mailed to EPA on April 1, 2002.

As a result of unforeseen conditions and expansion of the project scope, the construction activities, site restoration and the establishment of vegetation are anticipated to continue through May 2002. As a result of the extension of the overall construction period, the completion dates for post-remediation reports and Environmental Land Use Restrictions have also been extended to November 2002.

It is currently estimated that upon completion, approximately 65,000 tons of contaminated soil and sediment will have been excavated and disposed of off the site. The additional volume of contaminated soil results from two factors: first, greater than anticipated lateral and vertical extent of contamination in planned remediation areas and second, the decision to complete excavation beyond the limits required in Consent Order SRD-130 in select areas of the site where, due to physical constraints, the performance of future remediation would not be prudent or cost-effective.

The Step 4 groundwater investigation was performed at the Main Street facility and adjacent off-site properties in accordance with the *Work Plan For Groundwater Investigation In Support Of VCAP Risk Assessment (Step 4)* submitted to the EPA in August 2001. The Step 4 investigation



included the installation of permanent monitoring wells and screen points in the area near the Main Street and Willow Brook intersection. In addition, one permanent monitoring well pair was installed to the west of the Experimental Test Airport Laboratory (ETAL) area. The investigation intended to provide supplemental information in the vicinity of Willow Brook to assist in determining whether the Willow Brook channel acts as a pathway to contamination off-site and to determine the width of the plume at this location. In addition, the investigation intended to provide depth profiling information near the property line to the west of the ETAL area. Additional temporary screen points were installed in the Connecticut Department of Transportation right of way near the intersection of Willow Street and Main Street. The intent of this supplemental investigation was to determine the plume characteristics at this location. The results of the Step 4 investigation, as supplemented by these data, are attached (**Appendix A**).

2.2 Willgoos

Written draft comments were received from the EPA regarding the March 2000 *Documentation of EID for Current Human Exposures Under Control* at the Pratt & Whitney Willgoos facility located on Pent Road in East Hartford, Connecticut. Final comments were received from the EPA on October 9, 2001. In response to these comments, UTC submitted a revised *Documentation of EID for Current Human Exposures Under Control* on October 12, 2001.

Applicable final comments received for the Human Exposure EID were incorporated into a revised draft *Documentation of EID for Groundwater Migration Under Control*. This revised draft groundwater EID was submitted on February 8, 2002. It is anticipated that UTC will receive EPA comments to this draft groundwater EID during the next reporting period.

A total of seven additional wells (SW-MW-F6 through SW-MW-F11, and SW-MW-13) were installed between February 26 and March 3, 2002 in locations generally west of Tank F and former Tank E in the facility's fuel farm to delineate areas of suspected Jet-A fuel contamination and the presence of light non-aqueous phase liquid (LNAPL) on the groundwater table. Similarly, four additional wells (NW-MW-92 through NW-MW-95) were installed between February 27 and March 3, 2002 in an area north and northwest of the "northwest courtyard" to fill data gaps for on-going monitoring of the LNAPL plume resultant from the November 1999 Jet-A fuel spill.

2.3 Colt Street – Stabilized

2.4 Rocky Hill– Stabilized

2.5 North Haven

EPA is currently reviewing the revised documents submitted on May 3, 2001. A proposed groundwater monitoring program was submitted along with the 21st VCAP Progress Report. Comments to the proposed groundwater monitoring plan were received on March 6, 2002. Pratt & Whitney is currently in the process of responding to the EPA comments and preparing an indoor air monitoring plan in support of stabilization. The revised groundwater monitoring plan and the indoor air monitoring plan was provided to EPA during the second week of April 2002 as a single document entitled *Proposed Stabilization Monitoring Plan*.



3. PLANNED ACTIVITIES (NEXT THREE MONTHS)

This section provides a brief description of the investigation activities planned at each site during the next three months.

3.1 East Hartford

3.1.1 Klondike

Preparation of sections of the summary report documenting the Airport/Klondike investigation and remediation to satisfy the RCRA Corrective Action requirements will be continuing. Together with the sections of the summary report, presentation of Technical Memoranda (TMs) will continue during future review meetings. All proposed Unit-Specific Technical Memoranda (USTMs), which address the unit-specific soil investigations, have been submitted to EPA. The remaining sections of the summary report will be submitted during the second quarter of 2002.

EPA, UTC, and LEA continue to work cooperatively in the review of documents relating to the North Parcel of the Airport/Klondike. The documents include the North Parcel report (prepared by LEA) documenting investigation/remediation activities performed at the following environmental units: former Silver Lane Pickle Company; the North Klondike Undeveloped Land Outside Storage Area; the North Klondike Undeveloped Land Soil Piles; the former Army Barracks Area; and the Rentschler Airport Area) and the Marin Report (prepared by Marin Environmental Inc. for the Connecticut Office of Policy and Management for the transfer of the Stadium parcel).

The North Parcel includes an approximately 72-acre parcel (Stadium Parcel) and an approximately 3-acre parcel (Supplemental Stadium Parcel) that have been transferred to the State of Connecticut for a football stadium. UTC has submitted a letter to EPA requesting that the EPA begin the process of releasing the Stadium Parcel from corrective action obligations, based on the prior investigation and EPA review, indicating that there are no environmental issues on that parcel. UTC made a joint decision with EPA to include the 3-acre Supplemental Stadium Parcel as part of the release from corrective action obligations since additional remediation activities have been completed on that site. Fuss & O'Neill, Inc, the State's consultant, has prepared a Remedial Action Report documenting these activities. UTC is preparing a draft statement of basis for the combined 75-acre Stadium Site and it is expected that this will be submitted, along with the Fuss & O'Neill report, in April 2002.

3.1.2 Main Plant

Site activities associated with the remediation of Willow Brook and Willow Brook Pond continued through this quarter. Substantial completion of the project is estimated to occur in May 2002. Planned activities to be performed during the next reporting period include the excavation and offsite disposal of contaminated soil and sediment within the limits of the project site, the construction of the various engineered controls within and immediately surrounding Willow Brook and Willow Brook Pond and the restoration of the wetlands area.

3.2 Willgoos

It is anticipated that review comments for the February 8, 2002 revised draft *Documentation of Environmental Indicator Determination - Groundwater Migration Under Control* will be received from EPA during the next reporting period. It is anticipated that a timeframe for finalization of the groundwater EID will be established upon receipt of EPA's comments.

In accordance with the limited groundwater sampling plan outlined in the October 12, 2001 revised *Documentation of EID for Current Human Exposures Under Control*, groundwater sampling will be performed in April for select wells within the facility's fuel farm to verify that nearby residential areas are not impacted by the presence of contaminated groundwater.

The next indoor air monitoring event is expected to be performed at the facility in June 2002. The results will be submitted to EPA during the following reporting period.

3.4 Colt Street– Stabilized

3.5 Rocky Hill– Stabilized

An indoor air monitoring event is expected to be performed at the facility in April 2002 and the results will be submitted to EPA during the following reporting period.

3.5 North Haven

Environmental Indicator reports for both *Human Exposures Under Control* and *Migration of Contaminated Groundwater Under Control* for the North Haven facility were submitted to the CT DEP and the EPA on March 28, 2000. A revision to the original submission was submitted on May 3, 2001. It is anticipated that the EPA will render a decision that the site is stabilized during the next reporting period.

The *Proposed Stabilization Monitoring Plan* discussed in Section 2.5 was submitted to EPA in the second week in April, 2002. It is anticipated that Pratt & Whitney will begin the implementation of this monitoring plan during the next reporting period. The first monitoring event anticipated in the *Proposed Stabilization Monitoring Plan* is April 2002.

4. INTERIM MEASURES

This section provides a summary of some of the interim measures undertaken during this VCAP progress-reporting period. United Technologies Corporation/Pratt & Whitney is continuing to collect information on interim measures performed at each site and will provide a summary of any additional interim measures identified in the subsequent progress reports.

No Interim Measures were performed at the East Hartford, Willgoos, Colt Street, Rocky Hill or North Haven facilities during this reporting period.

FIGURES

**US EPA New England
RCRA Document Management System (RDMS)
Image Target Sheet**

RDMS Document ID# 1095

Facility Name: PRATT & WHITNEY (MAIN STREET)

Phase Classification: R-5

**Document Title: VOLUNTARY CORRECTIVE ACTION
PROGRAM PROGRESS REPORT FOR FIRST QUARTER
2002 (04/12/02 TRANSMITTAL LETTER ATTACHED)
[PART 1 OF 6]**

Date of Document: 04/01/2002

Document Type: PROGRESS REPORT

Purpose of Target Sheet:

Oversized **Privileged**

Page(s) Missing **Other (Please Provide Purpose
Below)**

Comments:

FIGURE 1: VCAP TIMELINE

Appendix A

Groundwater Investigation In Support of VCAP Risk Assessment (Step 4)

Pratt & Whitney, 400 Main Street, East Hartford, CT

**GROUNDWATER INVESTIGATION
IN SUPPORT OF
VCAP RISK ASSESSMENT
(STEP 4)**

**Pratt & Whitney
400 Main Street
East Hartford, CT**

April 2002

Prepared for

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Comm. No. 68VD136.001

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ACRONYMS

DNAPL	Dense Non-Aqueous Phase Liquid
DEP	Connecticut Department of Environmental Protection
DOT	Connecticut Department of Transportation
ETAL	Experimental Test Airport Laboratory
LCS	Laboratory Control Sample
LEA	Loureiro Engineering Associates, Inc.
MDL	Method Detection Limit
ND	None Detected
NTU	Nephelometric Turbidity Unit
P&W	United Technologies Corporation/Pratt & Whitney Division
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RSRs	Remediation Standard Regulations
SSL	Soil Screening Levels
SOP	Standard Operating Procedure
SVOCs	Semivolatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
VCAP	Voluntary Corrective Action Program
VOCs	Volatile Organic Compounds



1. SUMMARY

In support of the VCAP risk assessment, an additional groundwater investigation (Step 4) has been performed at the Pratt & Whitney, 400 Main Street, East Hartford facility through the installation of permanent wells in the northern portion of the property (Experimental Test Airport Laboratory (ETAL) Area) as well as off-site near the northwestern portion of the property near Main Street (Waste Treatment Area). The purpose of the investigations performed between July 31 and August 16, 2001 was three-fold:

- To provide supplemental information in the vicinity of Willow Brook to assist in determining whether the Willow Brook channel acts as a pathway to contamination off-site and to determine the width of the plume at this location.
- To provide depth-profiling information near the property line to the west of the ETAL area.
- To supplement groundwater flow direction information in the northwestern portion of the property and in the ETAL area.

The investigation included the installation of three permanent wells off-site, as indicated on Drawing Nos. 1 and 2. A monitoring well pair was installed at location WT-MW-38, consisting of two Geoprobe® wells screened across the water table and at the top of the clay layer. Single monitoring wells were installed at locations WT-MW-37 and WT-MW-39 due to the shallow depth from the surface of the ground to the clay layer at these locations.

Temporary screen points were advanced at twelve locations along Main Street near the intersection of Main Street and Willow Brook (WT-GW-31 through WT-GW-42). Two screen points were advanced at each location using a Geoprobe® to allow sampling of the groundwater from the water table and from the top-of-clay aquifer zone. In addition, discrete groundwater samples were collected at every foot, from location WT-GW-42 to develop depth-profiling information.

In addition, one permanent monitoring well pair was installed to the west of the ETAL area (ET-MW-21) to supplement groundwater flow information at that location. Discrete groundwater samples were also collected at every foot from that location to obtain depth-profiling information.



On December 12, 2001 through December 21, 2001, three additional screen points were installed to the east of Main Street on the Department of Transportation's (DOT's) right-of way, adjacent to the property currently occupied by Speedy Muffler. The intent of the investigation was to provide additional information at offsite properties near the location of the discharge of the plume of groundwater contamination into Willow Brook. The results obtained are presented in the following sections.

1.1 **Name Changes**

For consistency purposes, the names of several temporary screen points were changed. In the new name designation, the first two letters designate the area of the site (for example, WT- designates the waste treatment area). The following two letters designate the type of well or boring (for example -GW- indicates a temporary screen point. The last two digits represent a sequential number. The name changes are summarized in Attachment 1. The name changes implemented are reflected in the tables and drawings of this report, as well as in the electronic database. A key map showing the area designations for the site is provided in the drawings.



2. BACKGROUND

A groundwater investigation consisting of three steps (Step 1 through Step 3) has been performed at the Pratt & Whitney, 400 Main Street, East Hartford facility through the installation of temporary screen points and permanent wells installed throughout the plant property. In addition, wells have been installed at off-site properties to the northwest of the facility. This investigation has been performed in support of the Voluntary Corrective Action Program (VCAP) risk assessment with the purpose of understanding groundwater flow on-site and assessing the potential for migration of contamination off-site.

During the initial investigation, (Step 1), groundwater samples were collected from 15 existing monitoring wells and 50 temporary sampling locations (screen points) on site. The temporary sampling locations were along the northern and western boundary of the site. Two groundwater samples were collected from each temporary sampling location. The first sample was collected at the water table (upper three feet of the aquifer) and the second one from approximately three feet above the surface of the clay layer. The samples collected were analyzed for metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, nickel, and zinc), total petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs).

During the subsequent investigation, (Step 2), groundwater samples were collected from existing and newly installed temporary and permanent wells throughout the plant site. The purpose of the additional investigation was three-fold. First, nine additional screen points were installed to the west of the ETAL area using a Geoprobe® to allow collection of groundwater samples from across the water table and from the top of the clay layer at an approximate depth of 25 to 30 ft. These wells were installed to the west of the ETAL area at the northern portion of the facility to evaluate groundwater flowing off-site at this location. Second, ten permanent well pairs were installed along the northern property boundary in the general vicinity of Willow Brook Pond. As in the initial investigation, each well pair consisted of two wells, the first one intersecting the water table and the second one screened on top of the clay layer. The intent of these monitoring wells was to establish monitoring locations at areas where contamination had been identified or was suspected. In addition, soil screening samples were collected at the top-of-clay monitoring wells installed in the vicinity of Willow Brook Pond. Third, seven permanent well pairs were installed throughout the southwestern portion of the property to assist in developing groundwater elevation contours for the water table wells and for the top-of-clay monitoring wells. The groundwater monitoring performed included sampling of a number of wells for VOCs, filtered and unfiltered metals (arsenic, barium, beryllium, cadmium, copper, total chromium, hexavalent

chromium, lead, mercury, nickel, selenium, silver, and zinc), cyanide, and total petroleum hydrocarbons (TPH).

During the Step 3 groundwater investigation, three permanent monitoring wells were installed in the ETAL area, two wells were installed to the north of Willow Brook Pond, and six wells were installed at off-site properties (Willow Arms) and at the northwestern corner of the property. Metals, VOCs, and TPH were detected in the ETAL area. Predominantly metals and chlorinated hydrocarbons were detected in the Waste Treatment Area in the northwestern portion of the property, to the south of Willow Brook. Only traces of VOCs were detected at off-site wells installed in residential properties to the north of Willow Brook.

The contamination in the Waste Treatment Area flows toward Willow Brook in the shallow aquifer and toward the river channel in the top-of-clay aquifer zone. In order to confirm this, permanent well pairs and temporary screen points were installed near the intersection of Willow Brook and Main Street. The methodology used and the results obtained are provided in the following sections.



3. FACILITY INFORMATION

The Pratt & Whitney Main Street facility occupies approximately 1,100 acres of land in East Hartford, Connecticut. Design, manufacturing, assembly, and testing of aircraft engines and engine components take place at the Main Street Plant. The western part of the site consists of the main factory complex, engine development, a powerhouse, the Centralized Waste Storage and Transfer Facility, the Concentrated Waste Treatment Plant, several office buildings, and several other auxiliary buildings. The eastern part of the facility consists of an inactive airport, an area which had been used in the past for experimental and test facilities (the Klondike, which is now demolished), and undeveloped land.



4. METHODOLOGY

4.1 Soil Boring Installation and Soil Sampling

The primary objective of the soil sampling was to provide depth profiling information on the temporary Geoprobe® screen points and the permanent monitoring well pair locations. It should be noted that all soil borings were completed as temporary Geoprobe® screen points or permanent monitoring wells screened at the water table and above the top of the clay layer regardless of the depth profile of contamination. The results of the temporary Geoprobe® screen point groundwater sampling are discussed in the next section.

All borings were advanced using Geoprobe® direct push probing and sampling methodologies, as described in LEA's Standard Operating Procedure (SOP), entitled *Geoprobe® Probing and Sampling*. The MacroCore® sampler was used to collect soil samples. During borehole advancement, samples were obtained continuously from below grade to the base of the boring, with soil samples collected in two-foot sampling intervals. A portable volatile organic analyzer equipped with a photoionization detector (PID) was used to screen the length of the core collected every two feet. The PID measurements are recorded in the soil boring logs. Soils were classified and logged as described in LEA's SOP, entitled *Geologic Logging of Unconsolidated Sedimentary Materials*. All soil sampling at the site was performed in accordance with LEA's SOP, entitled *Soil Sampling*. Periodically, during soil boring advancement a portable total organic vapor analyzer equipped with a PID was used to monitor for VOCs near the borehole. It should be noted that monitoring well WT-MW-37, located to the north of Willow Brook, was installed using a trailer-mounted skid rig. Boring logs for all soil borings installed are provided in Attachment 2. Copies of the field forms are provided in Attachment 3.

4.1 Temporary Screen Point Installation and Groundwater Sampling

A Geoprobe® screen point was used at each soil boring location to collect groundwater samples at the groundwater table and at the top of the clay layer. The screen point sampler utilizes a sheathed four-foot extendable wire-wound stainless steel screen, equipped with an expendable drive-point, that is driven to the desired sampling depth and the sheath is withdrawn to expose the screen. Once the screen point was driven to the desired sample depth a peristaltic pump was used to retrieve a discrete groundwater sample.



Depth profiling of groundwater was conducted at two soil boring locations (WT-GW-42 and ET-MW-21) utilizing a Geoprobe® groundwater profiler. The groundwater profiler allowed the collection of discrete groundwater samples at one-foot intervals from the top of the groundwater table to the top of the clay layer. Copies of the field forms are provided in Attachment 3.

The sample collection equipment was decontaminated between sampling locations. The soil samples collected were placed in an ice-filled cooler and submitted to the LEA Analytical Laboratory for analysis for a screening list of VOCs. The samples were screened for 1,1,1-trichloroethane, trichloroethylene, tetrachloroethylene, benzene, toluene, ethylbenzene, and xylenes. In addition, approximately two soil samples from each boring or groundwater screen point were submitted to Severn Trent Laboratories (STL) of North Canton, Ohio for analysis. The results are presented in Section 5 below.

4.2 Monitoring Well Installation

Six monitoring wells were installed at the site between July 30, 2001 and August 13, 2001. All wells were small-diameter monitoring wells constructed using Geoprobe® Pre-Pack monitoring well construction materials, with the exception of WT-MW-37, which was a two-inch PVC well installed with a trailer-mounted skid rig. The pre-pack screen construction consists of three foot-long sections of 0.5-inch inside diameter, 0.010-inch slotted Schedule 80 PVC screen with a 1.5-inch diameter filter pack held in place by stainless steel mesh. The pre-pack screen sections may be joined to provide screen length multiples of three feet. A 0.5-inch diameter Schedule 80 PVC riser connects the screen to the surface.

Screen lengths for the shallow monitoring wells installed were nine feet, with approximately 5 to 7 feet placed below the water table. A screen length of three feet placed on top of the clay aquitard was used for the deeper wells. After the screen and riser were installed, one to two feet of sand was placed above the screen to prevent the bentonite seal from leaking downward into the screened interval. A bentonite grout seal was placed from the top of the sand cap to the surface. Emplacement of the sand cap and the bentonite grout seal was performed while slowly retrieving the casing, which allowed the native formation material to collapse around the backfill material. Monitoring well WT-MW-37 was installed using a trailer-mounted rig for ease of installation due to restricted accessibility at this location. The construction of this well used a 10 foot-long section of 2.0-inch inside diameter, 0.010-inch slotted Schedule 40 PVC screen with an approximate 8.75-inch diameter sand pack.

All wells installed were completed with flush-mounted road boxes and concrete pads. All wells were installed in general conformance with LEA's SOPs entitled, *Standard Operating Procedure*



for Installing and Developing Monitoring Wells and Piezometers and Geoprobe® Probing and Sampling.

4.2 Monitoring Well Development

All groundwater monitoring wells installed at the site were developed to ensure that an adequate hydraulic connection existed between the well and the aquifer. The headspace of all wells was screened for the presence of organic vapors with a PID immediately upon opening. Prior to development, measurements of total depth and water level were made at each well. Development was conducted in general conformance with LEA's SOP entitled, *Standard Operating Procedure for Installing and Developing Monitoring Wells and Piezometers*. Development water was placed into 55-gallon containers for off-site disposal at a licensed disposal facility.

The newly installed monitoring wells were developed by over-pumping using a peristaltic pump to draw down the well, followed by physical surging. After surging, the well was pumped to remove accumulated sediment. The cycle was repeated until the well produced clean water or until the physical parameters (temperature, pH, specific conductance and turbidity) stabilized. Further development by over-pumping or surging was performed as necessary to stabilize the field parameters.

In general, the water pumped from the wells became clear by the completion of the well development process. Wells were developed until the parameters stabilized or until the project manager approved the completion on the basis of the time spent, volume recorded, rate of recovery, or other limiting circumstances such as slow recharge.

4.3 Groundwater Monitoring

Groundwater samples were collected by LEA personnel between July 31, 2001 and August 16, 2001 from 18 monitoring wells in the vicinity of the Waste Treatment area. In addition, eight monitoring wells were sampled in the ETAL area.

The headspace of all wells was screened for the presence of organic vapors with a portable volatile organic analyzer equipped with a PID immediately upon opening. The wells were also checked for the presence of dense non-aqueous phase liquids (DNAPL). In the standard 2" wells, a bailer was lowered to the bottom of the well and retrieved to assess the presence of any standing free product. In the small diameter Geoprobe® wells a semi-transparent polyethylene tubing equipped with a foot valve was lowered to the bottom of the monitoring well, withdrawn



and examined for DNAPL. Prior to sampling each of the monitoring wells noted above, the depth to water and total depth of each well were recorded. From this information the total volume of water contained in each monitoring well was calculated. The water was purged initially and parameters such as pH, temperature, and specific conductivity were recorded. Once the initial volume of water was removed, the monitoring well was purged until parameter stabilization was achieved or until all standing water was evacuated (*LEA SOP for Groundwater Sampling and Analysis*). Turbidity measurements were also obtained and additional purging was performed until the turbidity measured was less than 10 NTU, if practicable. A maximum of 5 well volumes was purged from each well. Copies of the field forms are included in Attachment 3.

Samples were collected using a peristaltic pump equipped with dedicated polyethylene tubing. A disposable bailer was used for sampling for VOCs from the two-inch diameter monitoring wells. Samples for VOCs from the small diameter Geoprobe® wells were collected with a thin tubing equipped with a check valve. Samples collected for metals were filtered in the field using a dedicated 0.45-micron in-line filter assembly. Filtered and unfiltered groundwater samples were collected for dissolved and total metals analysis. The containers were sealed, placed in an iced cooler, and shipped to STL of North Canton Ohio under chain-of-custody procedures for analysis of filtered and unfiltered metals (arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc), TPH and VOCs. In addition, the groundwater samples collected in the Waste Treatment area were analyzed for SVOCs and PCBs. Due to holding time requirements, groundwater samples requiring hexavalent chromium analysis were delivered via courier to STL of Shelton, Connecticut.

During the sampling of the monitoring wells and screen points, 15 trip blanks (one trip blank per cooler containing EPA vials for VOC analysis), two equipment blanks, and two duplicate/replicate samples were submitted for analysis for quality assurance/quality control (QA/QC) purposes. In addition, two performance evaluation samples (assigned to four sample numbers to ensure proper handling by the laboratory) were submitted to STL, North Canton, Ohio. In addition, two equipment blanks, six trip blanks, and one performance evaluation sample were submitted for analysis during the off-site investigation at the DOT right of way adjacent to the Speedy Muffler property. Copies of the field forms are provided in Attachment 3. The reference elevations for the permanent monitoring wells sampled are provided in Table 1.

4.5 Water-Level Measurements

Water level measurements of over 40 permanent monitoring wells and river piezometers installed in Willow Brook Pond and Willow Brook at the northern portion of the property were



obtained on August 20, 2001. Both groundwater and surface water level measurements were obtained from the river piezometers installed. An additional river piezometer was installed (WT-RP-06) on August 7, 2001 to further define the groundwater hydrogeology within the study area. The groundwater elevations for the eastern side of the site are lower than normal, due to the de-watering and remediation operations at Willow Pond. All water levels were recorded to the nearest 0.01 foot using an electronic water level indicator. Between measurements the water level indicator was decontaminated to prevent cross-contamination. Contour maps showing groundwater elevation and flow direction in the shallow, (water table), and top-of-clay aquifer zones are shown in Drawings No. 1 and 2, respectively. It should be noted that the intent of obtaining water level measurements during this investigation was to supplement previous information. Comprehensive groundwater monitoring rounds were obtained during the Step 3 groundwater investigation. The reference elevations for the permanent monitoring wells sampled and the river piezometers are provided in Table 1 along with the groundwater and surface water elevations. It should be noted that all groundwater measurements obtained during this round were measured after the pond was drained. However, dewatering activities as part of the Willow Brook and Willow Brook Pond remediation had not started yet.

4.6 Relative Location and Elevation Survey

An instrument survey was performed to obtain the relative location and elevation of the soil borings, permanent monitoring wells, temporary Geoprobe® screen point sample locations and the river piezometer installed at the site. The reference elevations for the permanent monitoring wells measured for preparation of groundwater contours, a list of the wells sampled and the river piezometers are provided in Table 1. The temporary screen points at DOT's right-of way, adjacent to the Speedy Muffler property, were located using tape measurements. The locations of the monitoring wells installed are shown in Drawings No. 1 and 2.

4.7 Decontamination of Equipment

Down-hole equipment and soil and groundwater sampling devices that were not expendable were decontaminated between uses to prevent cross-contamination. The decontamination included washing with a Liquinox® detergent solution, rinsing with tap water, rinsing with 10% methanol solution and a final rinsing with de-ionized water and air-drying. All decontamination fluids were containerized and labeled prior to appropriate storage and were subsequently disposed of off-site at properly licensed facilities.

4.8 Management of Investigation-Derived Wastes

Waste soil and groundwater from sampling activities were transferred into 55-gallon drums. Open-top containers were used for soil and closed-top drums were used to contain purged groundwater and decontamination fluids. The drums were labeled in accordance with applicable regulatory requirements and were disposed of off-site at properly licensed facilities. Disposal arrangements were made by United Technologies Corporation (UTC) Pratt & Whitney Division.

4.9 Field Sample Collection and Sample Tracking

This section discusses the procedures followed by personnel to document the field investigation activities both in the field and in the office. Field sample tracking activities focused on the timely assignment and tracking of information. Chain-of-custody procedures were used to maintain, and document, sample possession from collection through analysis. For this reason, the possession of samples was traceable from the time the samples were collected until they were analyzed. The following documents identified sample and document possession:

- Sample labels;
- Chain-of-custody record forms; and
- Field report forms.

Following sample collection, the filled sample containers were placed in coolers and packed appropriately to prevent sample breakage. Freezer packs or ice, packed in plastic bags, were placed in the coolers to keep the samples at a temperature not exceeding 4°C during overnight transfer to the laboratory.

4.10 Documentation and Database Management

The need to maintain accurate and complete documentation of the investigations was a paramount concern. As a result, each phase of the investigation was documented in the field and the field documentation was then reviewed to ensure all necessary data had been obtained. During the completion of each day of field activities, a record of the events was prepared in the field. This report is referred to as a Daily Field Report and, as appropriate, it includes a summary of the daily field activities, a field instrumentation and quality assurance record, a field sampling record, chain-of-custody forms for all samples submitted for analysis, and field-generated boring logs and monitoring well completion logs. Measurements were recorded in the field and transferred manually from the field data sheets contained in the Daily Field report to the electronic database. Geologic, hydrologic, and chemical data generated during the investigation

were entered into an electronic project information management system (LEA database). The data entered were verified to ensure agreement between the hard copy and the electronic formats. Storing the data in the database allowed clear presentation of the data and queries against applicable standards.



5. RESULTS

The analytical results for the soil samples collected during the Step 4 investigation, including the results of the investigation at the Speedy Muffler property, are discussed below and presented in tabular form in Tables 2 through 4. Table 2 presents a summary of sampling and analytical information for soil; Table 3 presents a list of detected constituents for soil; and Table 4 summarizes all analytical results obtained for soil.

The analytical results for the groundwater samples collected during the Step 4 investigation, including the results of the investigation at the Speedy Muffler property, are summarized in Tables 5 through 8. Table 5 presents a summary of sampling and analytical information for groundwater; Table 6 presents a list of detected constituents for groundwater; and Table 7 summarizes all analytical results obtained for groundwater. Table 8a presents exceedances of groundwater data over generic Pratt & Whitney screening levels based on surface water protection (Table 3-7 in Gradient's report entitled *Conceptual Site Models and Screening levels for Pratt & Whitney's VCAP Connecticut Facilities*, dated December 19, 1997 and last revised on September 15, 1999); Table 8b presents exceedances over generic Pratt & Whitney screening levels based on dermal contact (Gradient's Table 3-8); and Table 8c presents exceedances of groundwater data over residential volatilization criteria listed in Connecticut DEP's Remediation Standard Regulations (RSRs).

Table 9 shows the summary of sampling and analytical information, and Table 10 shows the analytes detected for QA/QC samples. The locations of the monitoring wells sampled and groundwater contours are shown on Drawing No. 1 for the shallow aquifer zone and Drawing No. 2 for the top-of-clay aquifer zone. A list of qualifiers used by the laboratory is provided at the end of the table section of this report.

5.1 Soil Screening Data

Soil sampling was performed to provide depth profiling information on the permanent well pairs advanced in the general vicinity of the Waste Treatment and ETAL areas. The samples collected were analyzed by the LEA Analytical Laboratory for a screening list of chlorinated (1,1,1-trichloroethane, trichloroethylene, tetrachloroethylene) and aromatic hydrocarbons (benzene, toluene, ethylbenzene, and xylenes). The highest VOC concentrations observed by the LEA Analytical Laboratory included trichloroethylene at a concentration of 670 E µg/kg; and tetrachloroethylene at a concentration of 43 µg/kg both detected in a soil sample collected from a



depth of 14 to 16 feet at location WT-GW-41. The qualifier E indicates that the concentration reported exceeds the instrument's calibration range.

Typical VOCs detected and their highest concentrations observed in soil samples analyzed by Severn Trent Laboratories included cis-1,2-dichloroethylene at 2.3 J µg/kg (in soil boring WT-GW-33); tetrachloroethylene at 10.0 µg/kg (in soil boring WT-GW-41); and trichloroethylene at 200 µg/kg (in soil boring WT-GW-33). No VOCs were detected in any of the trip blanks submitted for analysis.

Typical metals detected and their highest concentrations in soil samples analyzed by Severn Trent Laboratories include arsenic at 7.6 mg/kg (WT-GW-38); barium at 158 mg/kg (WT-MW-38); cadmium at 1.3 mg/kg (WT-MW-37); total chromium at 31.1 mg/kg (WT-MW-38); lead at 119 mg/kg (WT-MW-37); mercury at 0.74 mg/kg (WT-GW-37); nickel at 25.9 mg/kg (WT-MW-38); and zinc at 104 mg/kg (WT-MW-08). The highest concentration of hexavalent chromium reported was 1.6 B mg/kg (in soil boring WT-GW-38). The qualifier B indicates that the analyte was detected in the method blank associated with this sample.

Typical SVOCs detected and their highest concentrations included acenaphthene at 2,600 µg/kg; benzo[a]anthracene at 6,400 µg/kg; benzo[a]pyrene at 5,800 µg/kg; benzo[b]fluoranthene at 7,900 µg/kg; benzo[ghi]perylene at 2,400 µg/kg; benzo[k]fluoranthene at 2,900 ug/kg; chrysene at 6,600 µg/kg; fluoranthene at 16,000 µg/kg; fluorene at 2,200 µg/kg; indeno(1,2,3-c,d)pyrene at 2,300 µg/kg; phenanthrene at 14,000 µg/kg; and pyrene at 12,000 µg/kg.

The highest cyanide concentration detected in soil samples during the Step 4 investigation was 2.6 mg/kg in soil boring WT-MW-39 at a depth of 14 to 16 feet. An elevated cyanide concentration (35.6 mg/kg) was detected in boring WT-GW-43D at a depth of 22 to 24 feet. The highest TPH concentration detected was 190 mg/kg in soil boring WT-GW-36 at a depth of 12 to 14 feet. PCBs were not detected in any of the soil samples analyzed.

Generic Pratt & Whitney screening levels for soil apply to surface soil samples in the 0 to 1 foot depth interval, consequently a comparison of the soil data against VCAP screening levels was not performed. The generic Pratt & Whitney screening levels are published in Table 3-10 of the *Conceptual Site Models and Screening Levels for Pratt & Whitney's VCAP Connecticut Facilities*, prepared by Gradient Corporation, issued on December 19, 1997 and revised on September 18, 1998 and September 15, 1999. Table 3-10 is titled, *Generic P&W Soil Screening Levels (SSLs) Based on Dermal Contact, P&W VCAP, Connecticut Facilities*. The screening levels for soil are based on the limits for protection of groundskeepers, samplers, and trespassers.



5.2 Groundwater Data

Groundwater samples were collected by LEA personnel between August 14 and August 16, 2001 from 26 monitoring wells. Groundwater samples were also collected in July and August 2001 from temporary screen points at 13 locations as discussed earlier. In addition, in December 2001 groundwater samples were collected from screen points advanced at three locations at the DOT right of way adjacent to the Speedy Muffler property. The groundwater samples collected were analyzed for filtered and unfiltered metals (arsenic, barium, beryllium, cadmium, total and hexavalent chromium, copper, lead, mercury, nickel, selenium, silver, and zinc), TPH, VOCs, and cyanide. The monitoring wells located in the Waste Treatment area were also sampled for PCBs and SVOCs.

5.2.1 Filtered/Unfiltered Metal Samples

Relatively low metal concentrations were detected in the monitoring wells sampled. In general the higher metal concentrations were detected in the unfiltered samples. The highest detected metal concentrations in the unfiltered samples included arsenic at 0.0567 mg/l; barium at 1.53 mg/l; cadmium at 0.0206 mg/l; chromium (total) at 0.564 mg/l; copper at 0.408 mg/l; lead at 1.23 mg/l; mercury at 0.0037 mg/l; nickel at 0.303 mg/l; selenium at 0.0058 mg/l; and zinc at 2.59 mg/l.

Low concentrations of metals were also detected in the filtered samples collected from the monitoring wells sampled. The highest metal concentrations detected in the filtered samples included arsenic at 0.0110 mg/l; barium at 0.542 mg/l; cadmium at 0.0018 B mg/l; chromium (total) at 0.0038 B mg/l; mercury at 0.00012 B mg/l; nickel at 0.0997 mg/l; and zinc at 0.389 mg/l.

In general the trend observed was that the unfiltered samples exhibited higher concentrations than the corresponding filtered samples. However, the results showed some variability. For example, in screen point WT-GW-40, barium (0.315 mg/l in the filtered sample and 0.373 mg/l in the unfiltered) and zinc (0.0532 mg/l in the filtered sample and 0.101 mg/l in the unfiltered) were detected both in the filtered and unfiltered samples at similar concentration levels, although lead (0.0237 mg/l) was detected in the unfiltered sample only. In certain wells metals were detected in the unfiltered sample but were absent in the filtered one. For example, cadmium (0.0076 mg/l), total chromium (0.112 mg/l), copper (0.307 mg/l), lead (1.23 mg/l), mercury (0.00037 mg/l), selenium (0.0056 mg/l) and zinc (0.996 mg/l) were only detected in the unfiltered sample collected from screen point WT-GW-39.



5.2.2 Comparison to Historic Measurements

A number of the permanent wells sampled were installed during the previous investigation (Step 3) and were re-sampled to confirm the results obtained. Overall the concentrations obtained during this investigation (Step 4) were generally of the same order of magnitude as observed during the previous monitoring round on April 2001 (Step 3). For example, trichloroethylene (detected at 530 µg/l in August 2001 and 460 µg/l in April 2001) and 1,1-dichloroethylene (detected at 51 µg/l in August 2001 and 57 µg/l in April 2001) were detected in well WT-MW-32D at similar concentration levels as observed historically. Similarly, the metal concentration levels observed in this well exhibited the same concentration levels in August 2001 as in April 2001. For example, zinc (filtered) was reported at 0.223 mg/l in a sample collected from monitoring well WT-MW-32D in August 2001, and was reported at 0.168 mg/l in April 2001 in a sample collected from the same well. Similarly, unfiltered zinc was reported in the same well at 0.220 mg/l in August 2001, and was reported at 0.180 mg/l in April 2001.

It should be noted that MTBE was reported at 21 µg/l in a groundwater sample collected from well WT-MW-35S during August 2001 at a concentration which is relatively higher than the one reported for the previous sampling event (0.34 µg/l in April 2001). In addition, cis-1,2-dichloroethylene (7.0 µg/l) and trichloroethylene (5.4 µg/l), which were found in WT-MW-36S during this investigation, were previously undetected in the April 2001 sampling event. Such differences are however expected due to the low concentration ranges reported.

5.2.3 Waste Treatment Area

The maximum concentrations of metals detected in filtered or unfiltered samples in the Waste Treatment area and off-site properties included: arsenic at 0.0567 mg/l (unfiltered); barium at 1.53 mg/l (unfiltered); cadmium at 0.0206 mg/l (unfiltered); chromium (total) at 0.564 mg/l (unfiltered); copper at 0.408 mg/l; lead at 1.23 mg/l (unfiltered); mercury at 0.0037 mg/l (unfiltered); nickel at 0.303 mg/l (unfiltered); selenium at 0.0058 mg/l (unfiltered); and zinc at 2.59 mg/l (unfiltered). Hexavalent chromium was not detected in the groundwater samples analyzed. It should be pointed out that the highest metal concentrations were reported in unfiltered samples.

Typical volatile organic compounds detected in the Waste Treatment area and their highest concentrations included: vinyl chloride (20 µg/l); 1,1-dichloroethane (23 µg/l);

1,1-dichloroethylene (850 µg/l); cis-1,2-dichloroethylene (26 µg/l); tetrachloroethylene (53 µg/l); 1,1,1-trichloroethane (660 µg/l); and trichloroethylene (1,300 µg/l).

Typical SVOCs detected and their highest concentrations included: acenaphthalene (27 µg/l); benzo[a]pyrene (3.8 J µg/l); benzo[ghi]perylene (2.7 J µg/l); indeno(1,2,3-cd)pyrene (2.4 J µg/l); fluoranthene (12 µg/l); fluorene (23 µg/l); and phenanthrene (14 µg/l).

TPH concentrations were observed in groundwater samples collected from the Waste Treatment area in monitoring wells and screen points WT-GW-32D, WT-GW-32S, WT-GW-38S, WT-GW-39S, WT-GW-39D, WT-GW-40S, and WT-MW-38D. The highest TPH concentration detected in the Waste Treatment area was 3.8 mg/l in the groundwater sample collected from monitoring well WT-MW-38D.

Cyanide concentrations were observed in groundwater samples collected from the Waste Treatment areas in monitoring wells WT-GW-38S, WT-GW-39S, WT-GW-43D, WT-GW-44D, WT-MW-31, WT-MW-33S, WT-MW-33D, WT-MW-35D, WT-MW-35S, WT-MW-36D, WT-MW-36S, and WT-MW-38D. The maximum cyanide concentration detected in the Waste Treatment area was 0.058 mg/l at monitoring well WT-MW-36D.

5.2.4 ETAL Area

Metal concentrations were detected in groundwater samples collected from monitoring wells to the west of the ETAL area. The maximum concentrations of metals in filtered or unfiltered samples in the ETAL area included: arsenic at 0.0079 mg/l; barium at 0.267 mg/l; cadmium at 0.0011 B mg/l; chromium (total) at 0.0557 mg/l; copper at 0.0615 mg/l; lead at 0.0138 mg/l; nickel at 0.0492 mg/l; and zinc at 0.231 mg/l. Hexavalent chromium was not detected in the groundwater samples analyzed.

Typical volatile organic compounds detected in the ETAL area and their highest concentrations included: tetrachloroethylene (30 µg/l) and trichloroethylene (140 µg/l). TPH was detected in the groundwater sample collected from the ETAL area in monitoring well ET-MW-20S (2.0 mg/l). Cyanide was not detected in any groundwater samples collected from the ETAL area.

5.2.5 Comparison Against Screening Levels

Comparison of the groundwater data against applicable generic Pratt & Whitney screening levels indicated several exceedances. Specifically, the groundwater data were compared to the numeric criteria published in Tables 3-7 and 3-8 of the Conceptual Site Models and Screening Levels for



Pratt & Whitney's VCAP Connecticut Facilities, prepared by Gradient Corporation, issued on December 19, 1997 and revised on September 18, 1998 and September 15, 1999. Table 3-7 is titled, *Generic P&W Groundwater Screening Levels (SLs) Based on Surface Water Protection, P&W VCAP, Connecticut Facilities* and Table 3-8 is titled, *Generic P&W Groundwater Screening Levels Based on Dermal Contact, P&W VCAP, Connecticut Facilities*. The concentrations of constituents that exceed the numeric criteria listed in Table 3-7 (based on surface water protection) are listed in Table 8a and the concentrations of constituents that exceeded the criteria specified in Table 3-8 are summarized in Table 8b in this report. All exceedances are also highlighted on Drawing Nos. 1 and 2. The generic Pratt & Whitney groundwater screening levels are included for reference in Attachment 4.

It should be noted that for certain compounds the detection limits reported by Severn Trent were over the corresponding VCAP screening levels. Severn Trent provided a letter stating that they were unable to meet the quantitation limits for certain constituents. The letter provided by Severn Trent is enclosed in Attachment 5.

In addition, the groundwater data obtained during this and the previous investigations for wells near the property boundary were compared against the default volatilization criteria for groundwater listed in the Remediation Standard Regulations (RSRs) established by the DEP. A comparison of measured groundwater concentrations near the property boundary against Connecticut volatilization criteria is dictated by Table 4-2 of the *Conceptual Site Models and Screening Levels for Pratt & Whitney's VCAP Connecticut Facilities* prepared by Gradient as referenced above. A list of exceedances is shown in Table 8c. The criteria used are included for reference in Attachment 4. The exceedances over the numeric volatilization criteria are highlighted in red color in Drawing Nos. 1 and 2 and are also identified in Drawings No. 3 and 4. It should be pointed out that the data blocks shown in Drawing Nos. 1 and 2 and the exceedances highlighted in red reflect only the results of the Step 4 investigation and Speedy Muffler investigation. However, in order to present an overall assessment of the conditions at the property the colored diamond symbols shown in Drawing Nos. 3 and 4 reflect groundwater data available from current (Step 4) and historic investigations.

A comparison of the groundwater data, obtained during the investigation adjacent to the Speedy Muffler property, indicated exceedances of the surface water protection criteria and residential or industrial/commercial volatilization criteria. The current groundwater classification for the area is GB. Exceedances over the surface water protection criteria were observed in the groundwater samples collected from location WT-GW-43S for acenaphthylene (15 J µg/l), benzo(a)anthracene (2.4 J µg/l), benzo(a)pyrene (up to 2.1 J µg/l), benzo(b)fluoranthene (up to 3.0 J µg/l), and



phenanthrene (14 µg/l). Low levels of SVOC concentrations have been observed in groundwater samples collected from WT-GW-36S, WT-MW-38S, and WT-GW-39S, all located near the intersection of Willow Brook and Main Street. Exceedances of residential and industrial/commercial volatilization criteria at offsite locations adjacent to the Speedy Muffler property were observed for groundwater samples collected from WT-GW-43S (1,1-dichloroethylene at 36 µg/l); WT-GW-44S (1,1-dichloroethylene at 36 µg/l); and WT-GW-45S (1,1-dichloroethylene at 35 µg/l).

A comparison of results obtained from the duplicate samples collected indicated that the results were in good agreement. Relative percent differences (RPDs) observed were below 35%, with the exception of unfiltered zinc at ET-MW-18D. Unfiltered zinc was detected at 0.0643 mg/l and 0.0340 mg/l in the duplicate samples collected from ET-MW-18D with an RPD of 62%. Several compounds, however, were detected in only one of the duplicate samples. For example, the unfiltered chromium (0.0127 mg/l), unfiltered lead (0.0116 mg/l), and TPH (0.5 mg/l) were detected in only one of the duplicate groundwater samples collected from monitoring well WT-GW-32. The RPDs observed during the investigation at the Speedy Muffler property were all below 21% with the exception of nickel (0.0139 mg/l and 0.0228 mg/l), which exhibited an RPD of 49%. Such discrepancies, however, are to be expected at the low concentration levels reported.

There were no compounds detected in equipment or trip blanks with the exception of trace levels of mercury, bis(2-ethylhexyl)phthalate, and chloroform detected in equipment blank samples 1998480 and 1998520. The presence of these compounds may be due to interferences or low level laboratory contamination. In addition, chloroform (at 29 µg/l and 38 µg/l) was reported in the equipment blank samples associated with the investigation at the Speedy Muffler property. Chloroform was not detected in the associated samples during the December 2001 investigation.

Three performance evaluation samples were submitted to STL, North Canton, Ohio. The first performance evaluation sample (split between sample numbers 2001023, 2001027) was submitted on August 7, 2001 for analysis for VOCs, SVOCs, metals, cyanide, TPH and PCBs. All VOCs, TPH and SVOCs metals, and cyanide were reported within vendor-specified acceptance limits, with the exception of ethyl benzene (55 µg/l) reported below vendor specified limits (55.3 - 86.4 µg/l). PCB 1260 (1.7 mg/l) was reported slightly above the vendor-specified acceptance limit (0.878 – 1.67 mg/l). Both of these deviations, however, may be attributed to rounding error. Nevertheless, the results of the performance evaluation samples were brought to the attention of STL. The investigation conducted by STL indicated that all QA/QC criteria were met and confirmed that all calculations were acceptable. STL also pointed out that the PCB



sample was re-extracted due to high laboratory control sample (LCS) criteria and the two values obtained were 1.6 mg/l and 1.7 mg/l.

The second performance evaluation sample (2000957, 2001001) was submitted to Severn Trent on August 8, 2001 for analysis for VOCs, SVOCs, metals, cyanide, TPH, and PCBs. The sample was split into two sample numbers to better ensure that proper analyses were performed on the proper samples. All compounds were reported within vendor-specified acceptance limits.

The third performance evaluation sample (2010165, 2010166) was submitted to Severn Trent on December 13, 2001 for analysis for VOCs, SVOCs, metals, cyanide, TPH, and PCBs. All compounds were reported within vendor-specified acceptance limits, with the exception of beryllium (reported at 0.00056 mg/l as false positive). The results of the performance evaluation samples were brought to the attention of STL. The investigation conducted by STL indicated that the beryllium result reported was slightly above the method detection limit (MDL). STL pointed out that results at the MDL level, although reportable, are considered by definition unreliable, and should only be used as an indication of possible, rather than certain, detection.

6. CONCLUSIONS

During the Step 4 groundwater investigation permanent well pairs were installed in the Waste Treatment area, in the ETAL area, and in off-site properties in the northwestern portion of the property. Temporary groundwater screen points were installed along Main Street near the intersection with Willow Brook and across the street on DOT's right-of-way adjacent to the Speedy Muffler property. A round of groundwater monitoring was performed including the newly installed wells, screen points, and selected existing wells that were installed during the Step 3 investigation. A review of the data obtained during previous investigations indicates the following:

6.1 ETAL Area

VOCs and metals have been detected in the ETAL area. On a point-by-point comparison certain metals exceeded the generic Pratt & Whitney screening levels based on Surface Water Protection (Table 3-7). However, these should not be viewed as exceedances since they were not confirmed in downgradient wells prior to the discharge to a surface water body. Chromium concentrations over generic Pratt & Whitney screening levels based on Surface Water Protection have been observed historically in the shallow (ET-GW-20S) and in the top-of-clay aquifer zones (ET-GW-19I, ET-GW-20I, and ET-GW-22I). However, chromium is not identified as an exceedance in downgradient well pair ET-MW-19. Lead was reported as an exceedance of Pratt & Whitney screening levels based on surface water protection in well ET-MW-19S. However, it was not identified as an exceedance in downgradient wells installed on the northern side of Willow Brook Pond. In addition, arsenic was found to be an exceedance of the generic Pratt & Whitney screening levels based on surface water protection in monitoring well ET-MW-20D during the latest sampling event. However, the detected concentrations of these metals in downgradient well pairs ET-MW-18, ET-MW-19, and ET-MW-21 were below the generic screening levels (Drawings No. 3 and 4).

Predominantly, chlorinated hydrocarbons, such as trichloroethylene, tetrachloroethylene and degradation products such as 1,1-dichloroethylene, cis-1,2-dichloroethylene and vinyl chloride have been detected in the ETAL area. Toluene has been detected historically in monitoring well ET-MW-05S. No exceedances of generic Pratt & Whitney screening levels were observed for VOCs in the area with the exception of tetrachloroethylene detected in groundwater sample collected from well ET-MW-10I which exceeded the generic Pratt & Whitney screening levels based on Surface Water Protection. It should be noted that VOC values over the Residential Volatilization Criteria listed in the RSRs have been observed in selected wells (ET-GW-20I,

ET-MW-10I, and ET-MW-20D) in the deep aquifer zone. However, the corresponding shallow aquifer well did not indicate an exceedance of the Residential Volatilization Criteria. It should be pointed out that the well pairs installed near the property line to the west of the ETAL area (ET-MW-18, ET-MW-19, and ET-MW-21) did not exhibit any exceedances over Residential Volatilization Criteria listed in the RSRs. Depth-profiling information obtained from location ET-MW-21D confirmed the above. The highest total VOC concentrations detected in monitoring wells in the ETAL Area during this and prior investigations are shown in Drawing No. 5.

6.2 Waste Treatment Area

Chlorinated hydrocarbons such as methylene chloride, 1,1,1-trichloroethane, trichloroethylene, tetrachloroethylene, cis-1,2-dichloroethylene, 1,1-dichloroethylene, 1,1-dichloroethane, vinyl chloride, and chloroform were detected in the temporary groundwater screen points installed in the vicinity of Willow Brook and Willow Brook Pond. Relatively elevated metal concentrations were also observed in the monitoring wells installed in the vicinity of Willow Brook and Willow Brook Pond. Exceedances over the generic Pratt & Whitney screening levels based on surface water protection (Table 3-7 in Gradient's report) and dermal contact (Table 3-8 in Gradient's report) are identified in Drawings No. 3 and 4. Exceedances over the default Residential Volatilization Criteria are also identified in these drawings. Based on the constituents and constituent concentrations identified it is likely that the conditions identified in this area are the result of multiple sources of contamination.

Of the well pairs installed immediately to the north of the larger water body of Willow Brook Pond (at locations WT-MW-35 and WT-MW-36), monitoring well WT-MW-36D exhibited concentrations of cyanide, arsenic, chromium (total), copper, and lead over generic Pratt & Whitney screening levels based on surface water protection. However, no exceedances remained for these wells when the concentrations observed were compared to drinking water standards multiplied by a factor of 10 or the default Groundwater Protection Criteria listed in the RSRs multiplied by 10. The drinking water standards used included the Federal primary and secondary Maximum Contaminant Levels (MCLs) including the lead-copper rule.

Of the wells installed to the north of Willow Brook (at locations WT-MW-29, WT-MW-30, WT-MW-31, WT-MW-37, WT-MW-38S and WT-MW-38D) concentrations over generic Pratt & Whitney screening levels based on surface water protection were observed in WT-MW-29S, WT-MW-29D, WT-MW-38D, and WT-MW-38S. However, no exceedances remained for these wells when the concentrations observed were compared to drinking water standards multiplied by a factor of 10 or the default GWPC multiplied by 10, with the exception of WT-MW-38D.



However, well WT-MW-38D is screened at the top-of-clay aquifer zone and does not discharge to surface water. Concentrations over generic Pratt & Whitney screening levels based on dermal contact were observed in WT-MW-38D. No exceedances over the residential Volatilization Criteria were observed for these wells. Groundwater flow in the shallow aquifer zone in this area is southerly toward Willow Brook. Groundwater flow in the top-of-clay aquifer zone is toward the Willow Brook stream channel.

The temporary groundwater screen points installed on the eastern side of Main Street exhibited concentrations of metals, SVOCs and VOCs (1,1-dichloroethylene), over the generic Pratt & Whitney screening levels based on surface water protection. Some of the concentrations observed also exceeded drinking water standards multiplied by a factor of 10 or the default GWPC multiplied by 10. Exceedances of SVOCs and VOCs (1,1-dichloroethylene) over the generic Pratt & Whitney screening levels based on dermal contact were also observed for these screen points. Several wells also contained concentrations over the tabulated Residential Volatilization Criteria. Groundwater in this area flows toward the Willow Brook stream channel.

Concentrations over the generic Pratt & Whitney screening levels for surface water protection were also observed for WT-MW-39 located on the northeastern corner of the intersection of Main Street and Willow Street. However, no exceedances remained for this well when the concentrations observed were compared to drinking water standards multiplied by a factor of 10 or the default GWPC multiplied by 10. No exceedances over the default Residential Volatilization Criteria were observed at WT-MW-39. Groundwater in this area flows toward the Willow Brook stream channel.

Groundwater samples from the screen points installed on DOT's right-of-way, along the Speedy Muffler property, exhibited concentrations of SVOCs over generic Pratt & Whitney screening levels, based on surface water protection (Table 3-7) and dermal contact (Table 3-8). Exceedances of residential and industrial/commercial volatilization criteria were observed for 1,1-dichloroethylene. Exceedances of surface water protection criteria were observed for SVOCs. It should also be noted that an elevated cyanide concentration (35.6 mg/kg) was detected at a soil sample collected from location WT-GW-43D.

The highest total VOC concentrations detected in monitoring wells in the Waste Treatment Area during this and prior investigations are shown in Drawing No. 6. The contamination detected in the Waste Treatment area and in general in the northwestern portion of the property flows toward Willow Brook in the shallow aquifer and toward the river channel in the top-of-clay aquifer zone, as confirmed by the permanent wells installed during this investigation. The temporary screen points installed were used to assist in determining the width of the plume migrating off-



site at this location. Two geologic cross-sections, parallel to Main Street immediately to the east and to the west of the street, are presented in Drawing No. 7. The total VOC concentrations observed are also shown on this drawing. The VOC iso-concentration lines shown on the drawing are based on the data currently available and are only shown for schematic purposes. Other contaminants present in the area include metals and SVOCs.



TABLES

TABLE 1
STEP 4 GROUNDWATER INVESTIGATION - Monitoring Wells
P&W East Hartford Main Plant Facility
Comm. No. 68VD135
Groundwater Elevations for August 20, 2001

Monitoring Well Identifier	Northing	Easting	Reference Elevation (ft)	Measured Depth to Water (ft)	Water Elevation (ft)	Shallow or Deep
ET-MW-01	148229.60	180793.79	42.35	11.74	30.61	S
ET-MW-02	148286.85	180784.58	40.26	9.40	30.86	S
ET-MW-03	148146.56	180733.73	41.89	11.12	30.77	S
ET-MW-04	147451.33	181064.43	40.85	9.61	31.24	S
ET-MW-05S	147628.17	180898.98	40.14	9.16	30.98	S
ET-MW-06	147766.34	181043.09	40.07	8.55	31.52	S
ET-MW-07	147882.75	181252.51	39.68	6.96	32.72	S
ET-MW-08	147641.11	181023.39	40.35	9.06	31.29	S
ET-MW-10S	148738.95	181343.80	40.13	6.24	33.89	S
ET-MW-13	148142.58	180672.90	40.13	6.45	33.68	S
ET-MW-14	148406.89	180620.69	39.72	8.98	30.74	S
ET-MW-15	148111.26	180730.01	40.10	9.20	30.90	S
ET-MW-18S	148525.16	179973.38	40.86	10.54	30.32	S
ET-MW-19S	148275.57	180007.07	40.05	9.87	30.18	S
ET-MW-20S	148952.66	180705.21	40.27	10.03	30.24	S
ET-MW-21S	148869.69	179887.38	41.21	11.15	30.06	S
GB-MW-02	146603.78	180510.09	38.00	11.68	26.32	S
GB-MW-03	146615.72	180380.25	38.56	11.53	27.03	S
RC-MW-02	149451.00	182138.00	44.96	7.83	37.13	S
RC-MW-04	148438.00	182301.00	43.52	6.50	37.02	S
RC-MW-13	148687.18	181782.93	41.88	7.15	34.73	S
RC-MW-14	148932.55	181280.54	41.06	7.28	33.78	S
RC-MW-15	148939.43	181088.44	40.27	7.8	32.47	S
SLR-MW-01	149621.93	181442.61	41.33	8.72	32.61	S
SLR-MW-02	149811.81	181231.24	41.47	9.55	31.92	S
WT-MW-17S	147349.60	179878.60	37.53	10.23	27.30	S
WT-MW-18S	147444.20	180409.10	40.25	10.75	29.50	S
WT-MW-19S	146873.60	179046.60	35.91	9.87	26.04	S
WT-MW-20S	146774.10	179134.10	36.76	10.03	26.73	S
WT-MW-26S	147482.10	179982.10	39.79	11.40	28.39	S
WT-MW-30*	146866.27	178428.83	34.72	9.74	24.98	S
WT-MW-31*	146983.38	178506.80	33.91	9.66	24.25	S
WT-MW-32S *	146649.53	178338.86	33.03	11.00	22.03	S
WT-MW-33S *	146521.58	178212.69	31.34	10.30	21.04	S

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STEP 4 GROUNDWATER INVESTIGATION - Monitoring Wells
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Monitoring Well Identifier	Northing	Easting	Reference Elevation (ft)	Measured Depth to Water (ft)	Water Elevation (ft)	Shallow or Deep
WT-MW-34S *	146343.19	178122.74	33.58	11.39	22.19	S
WT-MW-35S	147240.80	179381.60	35.68	8.78	26.90	S
WT-MW-36S	147012.10	179191.30	36.06	12.13	23.93	S
WT-MW-37	146727.45	178227.98	33.89	7.59	26.30	S
WT-MW-38S	146542.02	178083.28	32.58	11.61	20.97	S
WT-MW-39	146249.74	178020.22	34.19	13.32	20.87	S
WT-PZ-08	147324.76	179587.49	37.21	9.50	27.71	S
WT-PZ-09	147255.83	179503.64	37.26	11.18	26.08	S
WT-PZ-10	147202.38	179392.44	32.52	9.33	23.19	S
WT-PZ-11	147083.19	179327.95	33.22	9.04	24.18	S
WT-PZ-12	146982.19	179082.51	32.66	8.92	23.74	S
WT-RP-06 *	146557.54	178173.61	21.89	2.33	19.56	S
ET-MW-05I	147623.73	180900.37	40.22	9.16	31.06	D
ET-MW-18D	148523.31	179973.56	40.92	10.66	30.26	D
ET-MW-19D	148274.10	180007.28	40.03	9.92	30.11	D
ET-MW-20D	148953.84	180703.68	40.45	10.28	30.17	D
ET-MW-21D	148466.93	179877.50	41.35	11.28	30.07	D
WT-MW-17I	147354.60	179878.20	38.62	10.52	28.10	D
WT-MW-18I	147439.30	180409.70	40.00	10.66	29.34	D
WT-MW-19I	146895.70	179047.70	35.63	9.92	25.71	D
WT-MW-20I	146772.70	179128.70	36.95	10.28	26.67	D
WT-MW-26I	147487.20	179978.70	39.81	11.49	28.32	D
WT-MW-29D *	147070.28	178603.84	31.42	4.60	26.82	D
WT-MW-32D *	146649.12	178337.52	33.03	11.32	21.71	D
WT-MW-33D *	146523.69	178213.41	31.40	11.39	20.01	D
WT-MW-34D *	146342.02	178123.05	33.58	10.90	22.68	D
WT-MW-35D	147239.70	179380.40	35.56	8.95	26.61	D
WT-MW-36D	147011.80	179190.20	35.91	12.15	23.76	D
WT-MW-38D *	146542.90	178085.99	32.68	12.03	20.65	D

* Inferred

Table 2
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
ET-MW-21	2000969	08/13/2001	0 - 2	SB	x							
ET-MW-21	2000970	08/13/2001	2 - 4	SB	x							
ET-MW-21	2000971	08/13/2001	4 - 6	SB	x							
ET-MW-21	2000972	08/13/2001	6 - 8	SB	x							
ET-MW-21	2000973	08/13/2001	8 - 10	SB	x							
ET-MW-21	2000974	08/13/2001	10 - 12	SB	x							
ET-MW-21	2000975	08/13/2001	12 - 14	SB	x							
ET-MW-21	2000976	08/13/2001	14 - 16	SB	x							
ET-MW-21	1998499	08/13/2001	16 - 20	SB	x							
ET-MW-21	1998500	08/13/2001	20 - 24	SB	x	x	x			x	x	x
ET-MW-21	1998501	08/13/2001	24 - 28	SB	x							
ET-MW-21	1998502	08/13/2001	28 - 30	SB	x	x	x			x	x	x
ET-MW-21	1998503	08/13/2001	30 - 32	SB	X							
ET-MW-21	1998504	08/13/2001	32 - 34	SB	X	X	x			x	x	x
ET-MW-21	1998505	08/13/2001	34 - 36	SB	x							
ET-MW-21	1998506	08/13/2001	36 - 38	SB	x							
ET-MW-21	1998507	08/13/2001	38 - 40	SB	x	x						
WT-GW-31S	1998361	07/30/2001	0 - 2	SB	x							
WT-GW-31S	1998362	07/30/2001	2 - 3.5	SB	x							
WT-GW-31S	1998349	08/03/2001	0 - 2	SB	x							
WT-GW-31S	1998350	08/03/2001	2 - 4	SB	x							
WT-GW-31S	1998351	08/03/2001	4 - 6	SB	x							
WT-GW-31S	1998352	08/03/2001	6 - 8	SB	x							
WT-GW-31S	1998353	08/03/2001	8 - 10	SB	x							
WT-GW-31S	1998354	08/03/2001	10 - 12	SB	X	X	x			x	x	x
WT-GW-31S	1998355	08/03/2001	12 - 14	SB	X							
WT-GW-31S	1998356	08/03/2001	14 - 16	SB	X	X	x			x	x	x
WT-GW-31S	1998357	08/03/2001	16 - 18	SB	x							
WT-GW-31S	1998358	08/03/2001	18 - 20	SB	x							
WT-GW-32S	1998387	07/31/2001	0 - 2	SB	x							
WT-GW-32S	1998388	07/31/2001	2 - 4	SB	x							
WT-GW-32S	1998389	07/31/2001	4 - 6	SB	x							
WT-GW-32S	1998390	07/31/2001	6 - 8	SB	x							

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, f - filtered, nr - not received; Capitalized - at least one analyte in class detected
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SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-GW-32S	1998391	07/31/2001	8 - 10	SB	x							
WT-GW-32S	1998392	07/31/2001	10 - 12	SB	x							
WT-GW-32S	1998393	07/31/2001	12 - 16	SB	X	X	X			x	X	X
WT-GW-32S	1998394	07/31/2001	16 - 18	SB	x	X	x			x	X	X
WT-GW-32S	1998395	07/31/2001	18 - 20	SB	x							
WT-GW-32S	1998396	07/31/2001	18 - 20	SB	x							
WT-GW-33S	1998448	08/03/2001	0 - 2	SB	x							
WT-GW-33S	1998449	08/03/2001	2 - 4	SB	x							
WT-GW-33S	1998438	08/03/2001	4 - 6	SB	x							
WT-GW-33S	1998439	08/03/2001	6 - 8	SB	x							
WT-GW-33S	1998440	08/03/2001	8 - 10	SB	x							
WT-GW-33S	1998441	08/03/2001	10 - 12	SB	X	X	X			x	X	X
WT-GW-33S	1998442	08/03/2001	12 - 14	SB	X							
WT-GW-33S	1998443	08/03/2001	14 - 16	SB	x							
WT-GW-33S	1998444	08/03/2001	16 - 18	SB	x	X	x			x	X	x
WT-GW-33S	1998445	08/03/2001	16 - 18	SB	x	X	x			x	X	x
WT-GW-33S	1998446	08/03/2001	18 - 20	SB	x							
WT-GW-34S	1998363	07/30/2001	0 - 2	SB	x							
WT-GW-34S	1998364	07/30/2001	2 - 4	SB	x							
WT-GW-34S	1998365	07/30/2001	8 - 10	SB	x							
WT-GW-34S	1998366	07/30/2001	10 - 12	SB	x							
WT-GW-34S	1998367	07/30/2001	12 - 14	SB	X	X	X			x	X	X
WT-GW-34S	1998368	07/30/2001	14 - 16	SB	x							
WT-GW-34S	1998369	07/30/2001	16 - 18	SB	x							
WT-GW-34S	1998370	07/30/2001	18 - 20	SB	x							
WT-GW-34S	1998371	07/30/2001	20 - 21.4	SB	x	X	x			x	X	X
WT-GW-34S	1998372	07/30/2001	20 - 21.4	SB	x	X	x			x	X	x
WT-GW-34S	1998373	07/30/2001	21.4 - 24	SB	x							
WT-GW-35S	2000909	08/06/2001	0 - 2	SB	X							
WT-GW-35S	2000910	08/06/2001	2 - 4	SB	X							
WT-GW-35S	2000911	08/06/2001	4 - 6	SB	x							
WT-GW-35S	2000912	08/06/2001	6 - 8	SB	x							
WT-GW-35S	2000913	08/06/2001	8 - 12	SB	x							

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Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-GW-35S	2000914	08/06/2001	12 - 14	SB	X	X	x			x	X	x
WT-GW-35S	2000915	08/06/2001	14 - 16	SB	X							
WT-GW-35S	2000916	08/06/2001	16 - 18	SB	X	X	x			x	X	x
WT-GW-35S	2000917	08/06/2001	18 - 20	SB	x							
WT-GW-36S	1998374	07/31/2001	0 - 2	SB	x							
WT-GW-36S	1998375	07/31/2001	2 - 4	SB	x							
WT-GW-36S	1998376	07/31/2001	4 - 6	SB	x							
WT-GW-36S	1998377	07/31/2001	6 - 8	SB	x							
WT-GW-36S	1998378	07/31/2001	8 - 10	SB	x							
WT-GW-36S	1998379	07/31/2001	10 - 12	SB	X							
WT-GW-36S	1998380	07/31/2001	12 - 14	SB	X	X	X			x	X	X
WT-GW-36S	1998381	07/31/2001	14 - 16	SB	x							
WT-GW-36S	1998382	07/31/2001	16 - 18	SB	x	X	x			x	X	X
WT-GW-36S	1998383	07/31/2001	18 - 20	SB	x							
WT-GW-36S	1998384	07/31/2001	20 - 22	SB	x							
WT-GW-36S	1998385	07/31/2001	22 - 24	SB	x							
WT-GW-37S	1998321	07/31/2001	0 - 2	SB	x							
WT-GW-37S	1998322	07/31/2001	2 - 4	SB	x							
WT-GW-37S	1998323	07/31/2001	4 - 6	SB	x							
WT-GW-37S	1998324	07/31/2001	6 - 8	SB	x							
WT-GW-37S	1998325	07/31/2001	8 - 10	SB	x							
WT-GW-37S	1998326	07/31/2001	10 - 12	SB	x							
WT-GW-37S	1998327	07/31/2001	12 - 14	SB	x	x	X			x	X	X
WT-GW-37S	1998328	07/31/2001	14 - 16	SB	x							
WT-GW-37S	1998329	07/31/2001	16 - 18	SB	x	X	x			x	X	X
WT-GW-37S	1998330	07/31/2001	18 - 20	SB	x							
WT-GW-38S	1998332	08/01/2001	0 - 2	SB	x							
WT-GW-38S	1998333	08/01/2001	2 - 4	SB	x							
WT-GW-38S	1998334	08/01/2001	4 - 6	SB	x							
WT-GW-38S	1998335	08/01/2001	6 - 8	SB	x							
WT-GW-38S	1998336	08/01/2001	8 - 10	SB	x							
WT-GW-38S	1998337	08/01/2001	10 - 12	SB	x							
WT-GW-38S	1998338	08/01/2001	10 - 12	SB	x							

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SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-GW-38S	1998339	08/01/2001	12 - 14	SB	x							
WT-GW-38S	1998340	08/01/2001	14 - 16	SB	x	x	X			x	X	x
WT-GW-38S	1998341	08/01/2001	16 - 18	SB	x	X	X			x	X	X
WT-GW-38S	1998342	08/01/2001	18 - 20	SB	x							
WT-GW-38S	1998343	08/01/2001	20 - 22	SB	x							
WT-GW-38S	1998344	08/01/2001	22 - 24	SB	x							
WT-GW-39S	1998421	08/02/2001	0 - 2	SB	x							
WT-GW-39S	1998422	08/02/2001	2 - 4	SB	x							
WT-GW-39S	1998423	08/02/2001	4 - 6	SB	x							
WT-GW-39S	1998424	08/02/2001	6 - 8	SB	x							
WT-GW-39S	1998425	08/02/2001	8 - 12	SB	x							
WT-GW-39S	1998426	08/02/2001	12 - 16	SB	x	X	x			x	X	X
WT-GW-39S	1998427	08/02/2001	16 - 18	SB	x							
WT-GW-39S	1998428	08/02/2001	18 - 20	SB	x	X	x			x	X	X
WT-GW-39S	1998429	08/02/2001	20 - 22	SB	x							
WT-GW-40S	2000918	08/07/2001	0 - 2	SB	x							
WT-GW-40S	2000931	08/07/2001	2 - 4	SB	x							
WT-GW-40S	2000932	08/07/2001	4 - 6	SB	x							
WT-GW-40S	2000933	08/07/2001	6 - 8	SB	x							
WT-GW-40S	2000934	08/07/2001	8 - 12	SB	X							
WT-GW-40S	2000935	08/07/2001	12 - 14	SB	x	X	x			x	X	X
WT-GW-40S	2000936	08/07/2001	14 - 16	SB	x							
WT-GW-40S	2000937	08/07/2001	16 - 18	SB	x	X	X			x	X	X
WT-GW-40S	2000938	08/07/2001	18 - 20	SB	x							
WT-GW-41S	2000939	08/08/2001	0 - 2	SB	X							
WT-GW-41S	2000947	08/08/2001	2 - 4	SB	X							
WT-GW-41S	2000948	08/08/2001	4 - 6	SB	x							
WT-GW-41S	2000949	08/08/2001	6 - 8	SB	x							
WT-GW-41S	2000950	08/08/2001	8 - 10	SB	X							
WT-GW-41S	2000951	08/08/2001	10 - 12	SB	x	X	x			x	X	x
WT-GW-41S	2000952	08/08/2001	12 - 14	SB	X							
WT-GW-41S	2000953	08/08/2001	14 - 16	SB	X	X	x			x	X	x
WT-GW-41S	2000954	08/08/2001	16 - 18	SB	X							

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, f - filtered, nr - not received; Capitalized - at least one analyte in class detected
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Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEA Volatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-GW-41S	2000955	08/08/2001	18 - 20	SB	x							
WT-GW-43D	2010114	12/12/2001	0 - 2	SB	x							
WT-GW-43D	2010115	12/12/2001	2 - 4	SB	x							
WT-GW-43D	2010116	12/12/2001	4 - 6	SB	x							
WT-GW-43D	2010117	12/12/2001	6 - 8	SB	x							
WT-GW-43D	2010118	12/12/2001	8 - 10	SB	x							
WT-GW-43D	2010119	12/12/2001	10 - 12	SB	x							
WT-GW-43D	2010120	12/12/2001	12 - 14	SB	x							
WT-GW-43D	2010121	12/12/2001	14 - 16	SB	x							
WT-GW-43D	2010122	12/12/2001	16 - 18	SB	X	X	X			x	X	x
WT-GW-43D	2010123	12/12/2001	18 - 20	SB	x							
WT-GW-43D	2010124	12/12/2001	20 - 22	SB	x							
WT-GW-43D	2010125	12/12/2001	22 - 24	SB	x	X	x			x	X	X
WT-GW-43D	2010126	12/12/2001	24 - 26	SB	x							
WT-GW-44D	2010130	12/13/2001	0 - 2	SB	x							
WT-GW-44D	2010131	12/13/2001	2 - 4	SB	x							
WT-GW-44D	2010132	12/13/2001	4 - 6	SB	x							
WT-GW-44D	2010133	12/13/2001	6 - 8	SB	x							
WT-GW-44D	2010134	12/13/2001	8 - 10	SB	x							
WT-GW-44D	2010135	12/13/2001	10 - 12	SB	x							
WT-GW-44D	2010136	12/13/2001	12 - 14	SB	x							
WT-GW-44D	2010137	12/13/2001	14 - 16	SB	X	X	x			x	X	X
WT-GW-44D	2010138	12/13/2001	16 - 18	SB	x							
WT-GW-44D	2010139	12/13/2001	18 - 20	SB	x							
WT-GW-44D	2010140	12/13/2001	20 - 22	SB	x							
WT-GW-44D	2010141	12/13/2001	20 - 22	SB	x							
WT-GW-44D	2010142	12/13/2001	22 - 24	SB	x	X	x			x	X	x
WT-GW-45D	2010143	12/13/2001	0 - 2	SB	x							
WT-GW-45D	2010144	12/13/2001	2 - 4	SB	X							
WT-GW-45D	2010145	12/13/2001	4 - 6	SB	x							
WT-GW-45D	2010146	12/13/2001	6 - 8	SB	x							
WT-GW-45D	2010147	12/13/2001	8 - 10	SB	x							
WT-GW-45D	2010148	12/13/2001	10 - 12	SB	x							

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, f - filtered, nr - not received; Capitalized - at least one analyte in class detected
Printed on 02/07/2002



Table 2
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-GW-45D	2010149	12/13/2001	12 - 14	SB	x							
WT-GW-45D	2010150	12/13/2001	14 - 16	SB	x							
WT-GW-45D	2010151	12/13/2001	16 - 18	SB	x	x	x			x	x	x
WT-GW-45D	2010162	12/13/2001	18 - 20	SB	x							
WT-GW-45D	2010163	12/13/2001	20 - 22	SB	x							
WT-GW-45D	2010164	12/13/2001	22 - 24	SB	x	x	x			x	x	x
WT-MW-37	1998483	08/02/2001	0 - 2	SB	x							
WT-MW-37	1998484	08/02/2001	2 - 4	SB	x							
WT-MW-37	1998485	08/02/2001	4 - 6	SB	x							
WT-MW-37	1998486	08/02/2001	6 - 8	SB	x							
WT-MW-37	1998487	08/02/2001	8 - 10	SB	x	x	x			x	x t	x
WT-MW-37	1998488	08/02/2001	10 - 12	SB	x							
WT-MW-37	1998489	08/02/2001	12 - 14	SB	x	x	x			x	x	x
WT-MW-37	1998490	08/02/2001	14 - 16	SB	x							
WT-MW-38	1998309	07/30/2001	0 - 2	SB	x							
WT-MW-38	1998310	07/30/2001	2 - 4	SB	x							
WT-MW-38	1998311	07/30/2001	4 - 6	SB	x							
WT-MW-38	1998312	07/30/2001	6 - 8	SB	x							
WT-MW-38	1998313	07/30/2001	8 - 12	SB	x							
WT-MW-38	1998314	07/30/2001	12 - 14	SB	x							
WT-MW-38	1998315	07/30/2001	14 - 16	SB	x							
WT-MW-38	1998316	07/30/2001	16 - 18	SB	x							
WT-MW-38	1998318	07/30/2001	20 - 22	SB	x	x	x			x	x	x
WT-MW-38	1998319	07/30/2001	22 - 24	SB	x							
WT-MW-38	1998317	07/30/2001	24 - 26	SB	x	x	x			x	x	x
WT-MW-39	1998402	08/01/2001	0 - 2	SB	x							
WT-MW-39	1998403	08/01/2001	2 - 4	SB	x							
WT-MW-39	1998404	08/01/2001	4 - 6	SB	x							
WT-MW-39	1998405	08/01/2001	6 - 8	SB	x							
WT-MW-39	1998406	08/01/2001	8 - 12	SB	x							
WT-MW-39	1998407	08/01/2001	12 - 14	SB	x							
WT-MW-39	1998408	08/01/2001	14 - 16	SB	x	x	x			x	x	x
WT-MW-39	1998409	08/01/2001	16 - 18	SB	x	x	x			x	x	x

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, f - filtered, nr - not received; Capitalized - at least one analyte in class detected
Printed on 02/07/2002



Table 2
SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAVolatiles	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Miscellaneous Analyses
WT-MW-39	1998410	08/01/2001	18 - 20	SB	x							

Legend: x - mass, t - TCLP, s - SPLP, e - EPTOX, z - ZHE, d - Thermal Desorption, r - Charcoal Tube, a - SEM/AVS, f - filtered, nr - not received; Capitalized - at least one analyte in class detected
Printed on 02/07/2002

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	WT-GW-31S	WT-GW-31S
Sample ID	1998500	1998502	1998503	1998504	1998504	1998504	1998354	1998354
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/03/2001	08/03/2001
Sample Time	11:01	11:48	11:50	12:20	12:20	11:05	11:05	11:05
Sample Depth	20' - 24'	28' - 30'	30' - 32'	32' - 34'	32' - 34'	10' - 12'	10' - 12'	10' - 12'
Laboratory	STLC	STLC	LEA	LEA	STLC	LEA	STLC	STLC
Lab. Number	A1H140203001	A1H140203003	35052-0646	35052-0647	A1H140203005	197-0377	A1H080137002	
Constituent	Units							
Date Metals Analyzed	-	08/23/2001	08/23/2001			08/23/2001		08/15/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-			08/14/2001	08/14/2001	08/23/2001	08/06/2001	08/15/2001
Date Physical Analyzed	-		08/21/2001			08/21/2001		
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/kg	0.64 B	0.37 B			1.5		1.1
Barium	mg/kg	21.2 B	13.4 B			96.4		15.1
Beryllium	mg/kg	0.13 B	0.13 B			0.49 B		
Cadmium	mg/kg							
Chromium, Hexavalent	mg/kg					0.59 B		
Chromium, Total	mg/kg	3.4	4.2			21.8		4.5
Copper	mg/kg	3.8	3.4			21.9		4.3
Lead	mg/kg	1.8	1.3			4.9		3.4
Lead (TCLP)	mg/L							
Mercury	mg/kg							
Nickel	mg/kg	7.4	7.6			17.0		5.3
Selenium	mg/kg	0.53 B						
Silver	mg/kg							
Zinc	mg/kg	9.5	10.4			55.0		14.7
Cyanide (Total)	mg/kg					2.4		
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		8.5 B					
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	WT-GW-31S	WT-GW-31S
Sample ID	1998500	1998502	1998503	1998504	1998504	1998504	1998354	1998354
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/03/2001	08/03/2001
Sample Time	11:01	11:48	11:50	12:20	12:20	11:05	11:05	11:05
Sample Depth	20' - 24'	28' - 30'	30' - 32'	32' - 34'	32' - 34'	10' - 12'	10' - 12'	10' - 12'
Laboratory	STLC	STLC	LEA	LEA	STLC	LEA	STLC	STLC
Lab. Number	A1H140203001	A1H140203003	35052-0646	35052-0647	A1H140203005	197-0377	A1H080137002	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg							
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg							
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg							
Tetrachloroethylene (PCE)	ug/kg							3.5
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg					12		17
Trichloroethylene (TCE) (screening)	ug/kg			43	46		34	
cis-1,2-Dichloroethylene	ug/kg							

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998355	1998356	1998356	1998393	1998393	1998394	1998394	1998441
Sample Date	08/03/2001	08/03/2001	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	11:30	11:35	11:35	15:10	15:10	15:23	12:46	
Sample Depth	12' - 14'	14' - 16'	14' - 16'	12' - 16'	12' - 16'	16' - 18'	10' - 12'	
Laboratory	LEA	LEA	STLC	LEA	STLC	STLC	LEA	
Lab. Number	197-0378	197-0379	A1H080137004	197-0308	A1H010261029	A1H010261030	A1H010261030	35052-0575
Constituent	Units							
Date Metals Analyzed	-			08/15/2001		08/07/2001	08/07/2001	
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/06/2001	08/06/2001	08/15/2001	08/01/2001	08/10/2001	08/10/2001	08/06/2001
Date Physical Analyzed	-					08/08/2001	08/08/2001	
Date Semi-volatile Organics Analyzed	-					08/10/2001		
Arsenic	mg/kg			1.1		1.7	0.59 B	
Barium	mg/kg			17.4		23.7	73.7	
Beryllium	mg/kg					0.46 B	0.53 B	
Cadmium	mg/kg					0.22 B	0.16 B	
Chromium, Hexavalent	mg/kg						0.68 B	
Chromium, Total	mg/kg			5.8		9.6	9.5	
Copper	mg/kg			9.5		5.8	3.5 B	
Lead	mg/kg			3.1		8.9	3.4	
Lead (TCLP)	mg/L							
Mercury	mg/kg						0.031 B	
Nickel	mg/kg			7.3		5.7	2.9 B	
Selenium	mg/kg			1.0			0.66 B	
Silver	mg/kg							
Zinc	mg/kg			17.1		30.5	12.3	
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg					69	38 B	
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg					150 J		
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg					170 J		
Benzo(a)pyrene	ug/kg					190 J		
Benzo(b)fluoranthene	ug/kg					220 J		

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998355	1998356	1998356	1998393	1998393	1998394	1998394	1998441
Sample Date	08/03/2001	08/03/2001	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	11:30	11:35	11:35	15:10	15:10	15:23	12:46	
Sample Depth	12' - 14'	14' - 16'	14' - 16'	12' - 16'	12' - 16'	16' - 18'	10' - 12'	
Laboratory	LEA	LEA	STLC	LEA	STLC	STLC	LEA	
Lab. Number	197-0378	197-0379	A1H080137004	197-0308	A1H010261029	A1H010261030	A1H010261030	35052-0575
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg				140 J			
Benzo(k)fluoranthene	ug/kg				120 J			
Carbazole	ug/kg							
Chrysene	ug/kg				200 J			
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg				370 J			
Fluorene	ug/kg				88 J			
Indeno(1,2,3-c,d)pyrene	ug/kg				110 J			
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg				360 J			
1,1,1-Trichloroethane	ug/kg		4.0					
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg		2.0		1.5 J			
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg		3.1		21 J	270 J		
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg				6.5 J	85 J		
Tetrachloroethylene (PCE)	ug/kg		5.5					
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg		27		19			
Trichloroethylene (TCE) (screening)	ug/kg	38	70	85			540 E	
cis-1,2-Dichloroethylene	ug/kg							

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998441	1998442	1998444	1998445	1998367	1998367	1998371	1998371
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	12:46	13:12	13:40	13:41	14:25	14:25	15:50	
Sample Depth	10' - 12'	12' - 14'	16' - 18'	16' - 18'	12' - 14'	12' - 14'	20' - 21.4'	
Laboratory	STLC	LEA	STLC	STLC	LEA	STLC	STLC	
Lab. Number	A1H060128007	35052-0576	A1H060128010	A1H060128011	197-0275	A1G310192019	A1G310192023	
Constituent	Units							
Date Metals Analyzed	-	08/15/2001		08/15/2001	08/15/2001		08/07/2001	08/07/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/15/2001	08/06/2001	08/16/2001	08/16/2001	07/31/2001	08/10/2001	08/10/2001
Date Physical Analyzed	-	08/15/2001					08/08/2001	08/08/2001
Date Semi-volatile Organics Analyzed	-	08/16/2001					08/10/2001	
Arsenic	mg/kg	2.4		1.2 B	1.0 B		1.5	0.52 B
Barium	mg/kg	32.5		30.5	29.1		17.5 B	28.8 B
Beryllium	mg/kg						0.17 B	0.26 B
Cadmium	mg/kg	1.2					0.90	0.16 B
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg	9.3		5.4	4.5		4.1	5.2
Copper	mg/kg	51.5		4.0	3.2		6.7	3.2 B
Lead	mg/kg	27.4		2.7	2.2		13.0	2.3
Lead (TCLP)	mg/L							
Mercury	mg/kg	0.086 B					0.056 B	
Nickel	mg/kg	10.1		5.5	4.7		4.3 B	2.7 B
Selenium	mg/kg	1.1		0.55 B	0.41 B			0.64 B
Silver	mg/kg							
Zinc	mg/kg	56.0		11.5	9.6		14.2	6.3
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg	17 B					79	22 B
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg						63 J	
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg	130 J						
Benzo(a)pyrene	ug/kg	170 J					75 J	
Benzo(b)fluoranthene	ug/kg	180 J					98 J	

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998441	1998442	1998444	1998445	1998367	1998367	1998371	1998371
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	12:46	13:12	13:40	13:41	14:25	14:25	15:50	
Sample Depth	10' - 12'	12' - 14'	16' - 18'	16' - 18'	12' - 14'	12' - 14'	20' - 21.4'	
Laboratory	STLC	LEA	STLC	STLC	LEA	STLC	STLC	
Lab. Number	A1H060128007	35052-0576	A1H060128010	A1H060128011	197-0275	A1G310192019	A1G310192023	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg	130 J						
Benzo(k)fluoranthene	ug/kg	140 J						
Carbazole	ug/kg							
Chrysene	ug/kg	180 J				73 J		
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg	280 J				130 J		
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg	110 J						
Naphthalene	ug/kg							
Phenanthrene	ug/kg	140 J						
Pyrene	ug/kg	230 J				130 J		
1,1,1-Trichloroethane	ug/kg	130						
1,1-Dichloroethane	ug/kg	3.2 J						
1,1-Dichloroethene	ug/kg	79				3.5 J		
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg			43 J	32 J	4.3 J	140 J	
Benzene	ug/kg	0.95 J						
Benzene (screening)	ug/kg							
Chloroform	ug/kg	1.5 J						
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg			13 J	11 J		43 J	
Tetrachloroethylene (PCE)	ug/kg							
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg	200					5.8 J	
Trichloroethylene (TCE) (screening)	ug/kg		130			45		
cis-1,2-Dichloroethylene	ug/kg	2.3 J		1.4 J			1.0 J	

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	1998372	2000909	2000910	2000914	2000914	2000915	2000916	2000916
Sample Date	07/30/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	15:50	11:15	12:50	13:30	13:30	13:35	13:45	
Sample Depth	20' - 21.4'	0' - 2'	2' - 4'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	STLC	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	A1G310192024	197-0392	197-0394	197-0398	A1H080137020	197-0399	197-0400	
Constituent	Units							
Date Metals Analyzed	-	08/07/2001				08/15/2001		
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/11/2001	08/07/2001	08/07/2001	08/07/2001	08/15/2001	08/07/2001	08/07/2001
Date Physical Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/kg	0.78 B				0.95		
Barium	mg/kg	19.7 B				14.5		
Beryllium	mg/kg	0.21 B						
Cadmium	mg/kg	0.087 B						
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg	4.9				6.1		
Copper	mg/kg	2.8 B				5.2		
Lead	mg/kg	1.7				10.9		
Lead (TCLP)	mg/L							
Mercury	mg/kg							
Nickel	mg/kg	3.4 B				5.7		
Selenium	mg/kg	0.55 B				0.66		
Silver	mg/kg							
Zinc	mg/kg	8.8				17.9		
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg							
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	1998372	2000909	2000910	2000914	2000914	2000915	2000916	
Sample Date	07/30/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	
Sample Time	15:50	11:15	12:50	13:30	13:30	13:35	13:45	
Sample Depth	20' - 21.4'	0' - 2'	2' - 4'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	STLC	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	A1G310192024	197-0392	197-0394	197-0398	A1H080137020	197-0399	197-0400	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg							
1,1,1-Trichloroethane	ug/kg				11			
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethylene	ug/kg				5.9			
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg	69 J						
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg	21 J						
Tetrachloroethylene (PCE)	ug/kg				8.9			
Tetrachloroethylene (PCE) (screening)	ug/kg					23		
Trichloroethylene (TCE)	ug/kg				59			
Trichloroethylene (TCE) (screening)	ug/kg		33	36	140		290 E	110
cis-1,2-Dichloroethylene	ug/kg							
.								

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	2000916	1998379	1998380	1998380	1998382	1998327	1998329	
Sample Date	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	11:40	11:44	11:44	11:55	14:50	15:55	
Sample Depth	16' - 18'	10' - 12'	12' - 14'	12' - 14'	16' - 18'	12' - 14'	16' - 18'	
Laboratory	STLC	LEA	LEA	STLC	STLC	STLC	STLC	
Lab. Number	A1H080137022	197-0294	197-0295	A1H010261017	A1H010261019	A1H010261041	A1H010261043	
Constituent	Units							
Date Metals Analyzed	-	08/15/2001			08/07/2001	08/07/2001	08/07/2001	08/07/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/16/2001	08/01/2001	08/01/2001	08/10/2001	08/11/2001		08/10/2001
Date Physical Analyzed	-				08/08/2001	08/08/2001	08/08/2001	08/08/2001
Date Semi-volatile Organics Analyzed	-				08/10/2001		08/10/2001	
Arsenic	mg/kg	0.62			2.1	2.4	4.2	2.8
Barium	mg/kg	24.2			25.1	81.8	25.3	17.8 B
Beryllium	mg/kg				0.25 B	0.53 B	0.26 B	0.42 B
Cadmium	mg/kg				0.19 B	0.16 B	0.14 B	0.21 B
Chromium, Hexavalent	mg/kg					1.4 B		
Chromium, Total	mg/kg	6.7			6.7	11.8	6.2	5.4
Copper	mg/kg	2.4			28.0	10.3	18.4	34.1
Lead	mg/kg	2.9			33.8	18.3	35.0	7.7
Lead (TCLP)	mg/L							
Mercury	mg/kg				0.060 B	0.074 B	0.042 B	0.74
Nickel	mg/kg	6.3			6.1	8.7	6.4	10.2
Selenium	mg/kg					1.2		0.70
Silver	mg/kg							
Zinc	mg/kg	11.0			32.6	23.8	26.7	7.5
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg				190	120	120	31 B
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg				61 J			
Acenaphthylene	ug/kg				270 J		170 J	
Anthracene	ug/kg				120 J		91 J	
Benzo(a)anthracene	ug/kg				1100		650	
Benzo(a)pyrene	ug/kg				1400		870	
Benzo(b)fluoranthene	ug/kg				1700		1100	

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	2000916	1998379	1998380	1998380	1998382	1998327	1998329	
Sample Date	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	11:40	11:44	11:44	11:55	14:50	15:55	
Sample Depth	16' - 18'	10' - 12'	12' - 14'	12' - 14'	16' - 18'	12' - 14'	16' - 18'	
Laboratory	STLC	LEA	LEA	STLC	STLC	STLC	STLC	
Lab. Number	A1H080137022	197-0294	197-0295	A1H010261017	A1H010261019	A1H010261041	A1H010261043	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg			890		590		
Benzo(k)fluoranthene	ug/kg			990		540		
Carbazole	ug/kg							
Chrysene	ug/kg			1200		800		
Dibenz(a,h)anthracene	ug/kg			280 J		170 J		
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg			2000		1200		
Fluorene	ug/kg			130 J				
Indeno(1,2,3-c,d)pyrene	ug/kg			820		530		
Naphthalene	ug/kg							
Phenanthrene	ug/kg			290 J		380		
Pyrene	ug/kg			2100		1200		
1,1,1-Trichloroethane	ug/kg	8.6						
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg	6.8						
1,2-Dichloroethane	ug/kg					4.3 J		
Acetone	ug/kg	16			140 J		17 J	
Benzene	ug/kg						5.9 J	
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg	6.1			45 J		6.3 J	
Tetrachloroethylene (PCE)	ug/kg	9.5						
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg	140			13			
Trichloroethylene (TCE) (screening)	ug/kg		90	99				
cis-1,2-Dichloroethylene	ug/kg							

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-38S	WT-GW-38S	WT-GW-39S	WT-GW-39S	WT-GW-40S	WT-GW-40S	WT-GW-40S
Sample ID	1998340	1998341	1998426	1998428	2000934	2000935	2000935	2000935
Sample Date	08/01/2001	08/01/2001	08/02/2001	08/02/2001	08/07/2001	08/07/2001	08/07/2001	08/07/2001
Sample Time	13:56	14:15	11:10	11:18	13:10	13:25	13:25	13:25
Sample Depth	14' - 16'	16' - 18'	12' - 16'	18' - 20'	8' - 12'	12' - 14'	12' - 14'	12' - 14'
Laboratory	STLC	STLC	STLC	STLC	LEA	LEA	LEA	STLC
Lab. Number	A1H020176025	A1H020176026	A1H030191016	A1H030191018	35052-0601	35052-0602	35052-0602	A1H080223017
Constituent	Units							
Date Metals Analyzed	-	08/15/2001	08/15/2001	08/16/2001	08/16/2001			08/15/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-		08/15/2001	08/15/2001	08/15/2001	08/08/2001	08/08/2001	08/20/2001
Date Physical Analyzed	-		08/15/2001	08/15/2001	08/15/2001			08/15/2001
Date Semi-volatile Organics Analyzed	-	08/16/2001	08/16/2001					
Arsenic	mg/kg	3.7	7.6	2.4	0.97 B			2.0
Barium	mg/kg	21.8 B	81.9	24.1 B	44.0			48.9
Beryllium	mg/kg			0.18 B	0.22 B			
Cadmium	mg/kg	0.087 B	0.42 B	0.21 B	0.090 B			0.18 B
Chromium, Hexavalent	mg/kg		1.6 B					
Chromium, Total	mg/kg	6.4	17.0	5.6	6.0			8.5
Copper	mg/kg	7.1	41.7	28.4	3.4 B			10.5
Lead	mg/kg	27.5	117	28.8	3.0			17.7
Lead (TCLP)	mg/L							
Mercury	mg/kg	0.027 B	0.63	0.044 B				0.032 B
Nickel	mg/kg	7.0	15.4	7.7	4.9 B			12.7
Selenium	mg/kg	0.51 B	1.4					0.68
Silver	mg/kg							
Zinc	mg/kg	24.9	104	37.7	10.4 L			79.9
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		20 B	72	13 B			15 B
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg	220 J	170 J					
Benzo(a)pyrene	ug/kg	220 J	190 J					
Benzo(b)fluoranthene	ug/kg	240 J	220 J					



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-38S	WT-GW-38S	WT-GW-39S	WT-GW-39S	WT-GW-40S	WT-GW-40S	WT-GW-40S
Sample ID	1998340	1998341	1998426	1998428	2000934	2000935	2000935	
Sample Date	08/01/2001	08/01/2001	08/02/2001	08/02/2001	08/07/2001	08/07/2001	08/07/2001	
Sample Time	13:56	14:15	11:10	11:18	13:10	13:25	13:25	
Sample Depth	14' - 16'	16' - 18'	12' - 16'	18' - 20'	8' - 12'	12' - 14'	12' - 14'	
Laboratory	STLC	STLC	STLC	STLC	LEA	LEA	STLC	
Lab. Number	A1H020176025	A1H020176026	A1H030191016	A1H030191018	35052-0601	35052-0602	35052-0602	A1H080223017
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg	140 J	130 J					
Benzo(k)fluoranthene	ug/kg	140 J	110 J					
Carbazole	ug/kg							
Chrysene	ug/kg	260 J	220 J					
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg	420	340 J					
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg	130 J	120 J					
Naphthalene	ug/kg							
Phenanthrene	ug/kg	190 J	140 J					
Pyrene	ug/kg	330 J	300 J					
1,1,1-Trichloroethane	ug/kg						8.0	
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg						2.7 J	
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg		160 J		180			
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg		54 J		55 J			
Tetrachloroethylene (PCE)	ug/kg						1.7 J	
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg			15				31
Trichloroethylene (TCE) (screening)	ug/kg					38	200	
cis-1,2-Dichloroethylene	ug/kg							

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-40S	WT-GW-40S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S
Sample ID	2000937	2000937	2000939	2000947	2000950	2000951	2000951	2000951
Sample Date	08/07/2001	08/07/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001
Sample Time	13:35	13:35	10:30	11:00	11:40	11:41	11:41	11:41
Sample Depth	16' - 18'	16' - 18'	0' - 2'	2' - 4'	8' - 10'	10' - 12'	10' - 12'	10' - 12'
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	STLC
Lab. Number	35052-0604	A1H080223019	35052-0615	35052-0616	35052-0619	35052-0620	35052-0620	A1H090276007
Constituent	Units							
Date Metals Analyzed	-		08/15/2001					08/16/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/08/2001	08/21/2001	08/09/2001	08/09/2001	08/09/2001	08/09/2001	08/21/2001
Date Physical Analyzed	-		08/15/2001					
Date Semi-volatile Organics Analyzed	-		08/16/2001					
Arsenic	mg/kg		3.1					1.1 B
Barium	mg/kg		39.2					23.2 B
Beryllium	mg/kg							0.19 B
Cadmium	mg/kg		0.076 B					
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg		9.4					6.0
Copper	mg/kg		7.4					7.1
Lead	mg/kg		12.1					16.2
Lead (TCLP)	mg/L							
Mercury	mg/kg		0.019 B					0.041 B
Nickel	mg/kg		9.3					6.5
Selenium	mg/kg		0.60 B					
Silver	mg/kg							
Zinc	mg/kg		27.3					28.8
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		150					
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-40S	WT-GW-40S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S
Sample ID	2000937	2000937	2000939	2000947	2000950	2000951	2000951	2000951
Sample Date	08/07/2001	08/07/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001	08/08/2001
Sample Time	13:35	13:35	10:30	11:00	11:40	11:41	11:41	11:41
Sample Depth	16' - 18'	16' - 18'	0' - 2'	2' - 4'	8' - 10'	10' - 12'	10' - 12'	10' - 12'
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	STLC
Lab. Number	35052-0604	A1H080223019	35052-0615	35052-0616	35052-0619	35052-0620	35052-0620	A1H090276007
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg		64 J					
1,1,1-Trichloroethane	ug/kg							10
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg							6.1
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg		6.6 J					
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg							
Tetrachloroethylene (PCE)	ug/kg							9.2
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg		5.1 J					81
Trichloroethylene (TCE) (screening)	ug/kg	46		64	39	180	280	
cis-1,2-Dichloroethylene	ug/kg							
.								



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-43D	WT-GW-43D	WT-GW-43D
Sample ID	2000952	2000953	2000953	2000954	2010122	2010122	2010125	
Sample Date	08/08/2001	08/08/2001	08/08/2001	08/08/2001	12/12/2001	12/12/2001	12/12/2001	
Sample Time	11:55	11:56	11:56	12:15	12:30	12:30	12:51	
Sample Depth	12' - 14'	14' - 16'	14' - 16'	16' - 18'	16' - 18'	16' - 18'	22' - 24'	
Laboratory	LEA	LEA	STLC	LEA	CAN	LEA	CAN	
Lab. Number	35052-0621	35052-0622	A1H090276009	35052-0623	A1L200322001	35052-1386	A1L200322002	
Constituent	Units							
Date Metals Analyzed	-			08/16/2001		12/23/2001		12/23/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/09/2001	08/09/2001	08/21/2001	08/09/2001	12/22/2001	12/14/2001	12/22/2001
Date Physical Analyzed	-							12/21/2001
Date Semi-volatile Organics Analyzed	-					12/28/2001		
Arsenic	mg/kg			1.6		1.1 B		
Barium	mg/kg			24.6		56.3		16.1 B
Beryllium	mg/kg			0.21 B		0.16 B		0.11 B
Cadmium	mg/kg			0.073 B		0.49 B		
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg			6.5		9.1		4.7
Copper	mg/kg			8.5		8.9		2.3 B
Lead	mg/kg			58.6		11.6		2.0
Lead (TCLP)	mg/L							
Mercury	mg/kg			0.052 B		0.037 B		
Nickel	mg/kg			6.6		5.9		5.1 B
Selenium	mg/kg							
Silver	mg/kg					0.60 B		
Zinc	mg/kg			50.5		15.9		10.1
Cyanide (Total)	mg/kg							35.6
Total Petroleum Hydrocarbons EPA 418.1	mg/kg							
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg				96 J			
Benzo(a)pyrene	ug/kg				100 J			
Benzo(b)fluoranthene	ug/kg				140 J			

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-41S	WT-GW-43D	WT-GW-43D	WT-GW-43D
Sample ID	2000952	2000953	2000953	2000954	2010122	2010122	2010125	
Sample Date	08/08/2001	08/08/2001	08/08/2001	08/08/2001	12/12/2001	12/12/2001	12/12/2001	
Sample Time	11:55	11:56	11:56	12:15	12:30	12:30	12:30	12:51
Sample Depth	12' - 14'	14' - 16'	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	22' - 24'
Laboratory	LEA	LEA	STLC	LEA	CAN	LEA	CAN	
Lab. Number	35052-0621	35052-0622	A1H090276009	35052-0623	A1L200322001	35052-1386	A1L200322002	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg					92 J		
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg					120 J		
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg					94 J		
Pyrene	ug/kg					130 J		
1,1,1-Trichloroethane	ug/kg			9.4		6.2		
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg			1.5 J		6.4		
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg					18 JB		61 JB
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg					1.3 J		2.1 J
Methyl Ethyl Ketone (2-Butanone)	ug/kg					4.3 J		17 J
Tetrachloroethylene (PCE)	ug/kg			10		2.9 J		
Tetrachloroethylene (PCE) (screening)	ug/kg		43					
Trichloroethylene (TCE)	ug/kg			56		43		
Trichloroethylene (TCE) (screening)	ug/kg	270	670 E		78		73	
cis-1,2-Dichloroethylene	ug/kg							
.								

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-44D	WT-GW-44D	WT-GW-44D	WT-GW-45D	WT-GW-45D	WT-GW-45D	WT-MW-37
Sample ID	2010137	2010137	2010142	2010144	2010151	2010164	1998487	
Sample Date	12/13/2001	12/13/2001	12/13/2001	12/13/2001	12/13/2001	12/13/2001	08/02/2001	
Sample Time	11:01	11:01	11:52	14:10	15:20	15:26	12:15	
Sample Depth	14' - 16'	14' - 16'	22' - 24'	2' - 4'	16' - 18'	22' - 24'	8' - 10'	
Laboratory	CAN	LEA	CAN	LEA	CAN	CAN	STLC	
Lab. Number	A1L200322003	35052-1402	A1L200322004	35052-1409	A1L200322005	A1L200322006	A1H030191025	
Constituent	Units							
Date Metals Analyzed	-	12/23/2001		12/23/2001		12/23/2001	12/23/2001	08/16/2001
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	12/22/2001	12/14/2001	12/22/2001	12/14/2001	12/22/2001	12/22/2001	
Date Physical Analyzed	-	01/02/2002						08/15/2001
Date Semi-volatile Organics Analyzed	-							08/17/2001
Arsenic	mg/kg	1.7		0.71 B		0.69 B	1.6	1.3
Barium	mg/kg	25.8		10.8 B		17.1 B	134	28.4
Beryllium	mg/kg	0.23 B		0.10 B		0.20 B	0.75	0.16 B
Cadmium	mg/kg						0.065 B	1.3
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg	6.6		3.0		6.0	27.1	10.7
Copper	mg/kg	10.8		1.1 B		6.0	27.5	12.3
Lead	mg/kg	23.9		1.2		11.3	7.6	119
Lead (TCLP)	mg/L							
Mercury	mg/kg	0.027 B				0.012 B		0.082 B
Nickel	mg/kg	7.0		4.4 B		6.6	24.2	18.4
Selenium	mg/kg					0.39 B	0.44 B	
Silver	mg/kg	0.28 B						0.23 B
Zinc	mg/kg	26.6		6.1		17.3	71.2	33.9
Cyanide (Total)	mg/kg							0.22 B
Total Petroleum Hydrocarbons EPA 418.1	mg/kg	14 B						23 B
2-Methylnaphthalene	ug/kg							570 J
Acenaphthene	ug/kg							2600
Acenaphthylene	ug/kg							
Anthracene	ug/kg							3700
Benzo(a)anthracene	ug/kg							6400
Benzo(a)pyrene	ug/kg							5800
Benzo(b)fluoranthene	ug/kg							7900

Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-44D	WT-GW-44D	WT-GW-44D	WT-GW-45D	WT-GW-45D	WT-GW-45D	WT-MW-37
Sample ID	2010137	2010137	2010142	2010144	2010151	2010164	1998487	
Sample Date	12/13/2001	12/13/2001	12/13/2001	12/13/2001	12/13/2001	12/13/2001	08/02/2001	
Sample Time	11:01	11:01	11:52	14:10	15:20	15:26	12:15	
Sample Depth	14' - 16'	14' - 16'	22' - 24'	2' - 4'	16' - 18'	22' - 24'	8' - 10'	
Laboratory	CAN	LEA	CAN	LEA	CAN	CAN	STLC	
Lab. Number	A1L200322003	35052-1402	A1L200322004	35052-1409	A1L200322005	A1L200322006	A1H030191025	
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							2400
Benzo(k)fluoranthene	ug/kg							2900
Carbazole	ug/kg							1600 J
Chrysene	ug/kg							6600
Dibenz(a,h)anthracene	ug/kg							800 J
Dibenzofuran	ug/kg							1400 J
Fluoranthene	ug/kg							16000
Fluorene	ug/kg							2200
Indeno(1,2,3-c,d)pyrene	ug/kg							2300
Naphthalene	ug/kg							960 J
Phenanthrene	ug/kg							14000
Pyrene	ug/kg							12000
1,1,1-Trichloroethane	ug/kg	9.1						
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg	9.7						
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg			31 JB		16 JB	5.4 JB	
Benzene	ug/kg							
Benzene (screening)	ug/kg				58			
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg			1.5 J		1.3 J		
Methyl Ethyl Ketone (2-Butanone)	ug/kg			6.3 J		3.5 J		
Tetrachloroethylene (PCE)	ug/kg	4.1 J						
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg	44				1.0 J		
Trichloroethylene (TCE) (screening)	ug/kg		88					
cis-1,2-Dichloroethylene	ug/kg							



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-37	WT-MW-37	WT-MW-38	WT-MW-38	WT-MW-39	WT-MW-39	
Sample ID	1998487	1998489	1998318	1998317	1998408	1998409	1998409	
Sample Date	08/02/2001	08/02/2001	07/30/2001	07/30/2001	08/01/2001	08/01/2001	08/01/2001	
Sample Time	12:15	12:30	15:30	14:56	13:35	13:41		
Sample Depth	8' - 10'	12' - 14'	20' - 22'	24' - 26'	14' - 16'	16' - 18'		
Laboratory	STLC	STLC	STLC	STLC	STLC	STLC	STLC	
Lab. Number	AIK080299001	A1H030191027	A1G310192011	A1G310192010	A1H020176014	A1H020176015		
Constituent	Units							
Date Metals Analyzed	-		08/16/2001	08/07/2001	08/07/2001	08/07/2001	08/07/2001	
Date of Metals TCLP Analysis	-	11/12/2001						
Date Organics Analyzed	-							
Date Physical Analyzed	-			08/08/2001		08/08/2001		
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/kg		2.4	5.2		0.87 B	1.6	
Barium	mg/kg		101	158	8.3 B	13.6 B	49.2	
Beryllium	mg/kg		0.54 B	0.89	0.15 B	0.20 B	0.36 B	
Cadmium	mg/kg		0.17 B	0.43 B		0.068 B	0.11 B	
Chromium, Hexavalent	mg/kg		1.0 B		0.51 B			
Chromium, Total	mg/kg		22.7	31.1	5.0	9.8	8.7	
Copper	mg/kg		24.2	30.9	7.0	1.9 B	7.4	
Lead	mg/kg		7.2	9.2	1.4	2.4	2.9	
Lead (TCLP)	mg/L	0.33						
Mercury	mg/kg							
Nickel	mg/kg		19.1	25.9	3.1 B	3.7 B	9.7	
Selenium	mg/kg			0.87	0.38 B	0.49 B	0.40 B	
Silver	mg/kg							
Zinc	mg/kg		57.5	83.0	7.1	7.4	18.2	
Cyanide (Total)	mg/kg					2.6		
Total Petroleum Hydrocarbons EPA 418.1	mg/kg			15 B		9.8 B		
2-Methylnaphthalene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							



Table 3
SUMMARY OF ANALYTICAL RESULTS (DETECTS)
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-MW-37	WT-MW-37	WT-MW-38	WT-MW-38	WT-MW-39	WT-MW-39	
Sample ID	1998487	1998489	1998318	1998317	1998408	1998409		
Sample Date	08/02/2001	08/02/2001	07/30/2001	07/30/2001	08/01/2001	08/01/2001		
Sample Time	12:15	12:30	15:30	14:56	13:35	13:41		
Sample Depth	8' - 10'	12' - 14'	20' - 22'	24' - 26'	14' - 16'	16' - 18'		
Laboratory	STLC	STLC	STLC	STLC	STLC	STLC		
Lab. Number	A1K080299001	A1H030191027	A1G310192011	A1G310192010	A1H020176014	A1H020176015		
Constituent	Units							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Naphthalene	ug/kg							
Phenanthrene	ug/kg							
Pyrene	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg							
1,2-Dichloroethane	ug/kg							
Acetone	ug/kg							
Benzene	ug/kg							
Benzene (screening)	ug/kg							
Chloroform	ug/kg							
Dichlorodifluoromethane	ug/kg							
Methyl Ethyl Ketone (2-Butanone)	ug/kg							
Tetrachloroethylene (PCE)	ug/kg							
Tetrachloroethylene (PCE) (screening)	ug/kg							
Trichloroethylene (TCE)	ug/kg							
Trichloroethylene (TCE) (screening)	ug/kg							
cis-1,2-Dichloroethylene	ug/kg							
.								

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40	
Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639	
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/14/2001	08/14/2001	08/14/2001	08/14/2001	08/14/2001	08/14/2001	08/14/2001
Date Physical Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Dinoseb	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Lead (TCLP)	mg/L							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
PCB-1016 (Arochlor 1016)	ug/kg							
PCB-1221 (Arochlor 1221)	ug/kg							
PCB-1232 (Arochlor 1232)	ug/kg							
PCB-1242 (Arochlor 1242)	ug/kg							
PCB-1248 (Arochlor 1248)	ug/kg							
PCB-1254 (Arochlor 1254)	ug/kg							
PCB-1260 (Arochlor 1260)	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40	
Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg							
2-Acetylaminofluorene	ug/kg							
Aramite (total)	ug/kg							
Dimethoate	ug/kg							
Disulfoton	ug/kg							
Famphur	ug/kg							
Hexachlorobenzene	ug/kg							
Hexachlorocyclopentadiene	ug/kg							
Phorate	ug/kg							
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg							
Zinophos	ug/kg							
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg							
Total Solids	%							
1,2,4,5-Tetrachlorobenzene	ug/kg							
1,3,5-Trinitrobenzene	ug/kg							
1,3-Dinitrobenzene	ug/kg							
1,4-Naphthoquinone	ug/kg							
1-Naphthylamine	ug/kg							
2,2'-Oxybis(2-chloropropane)	ug/kg							
2,3,4,6-Tetrachlorophenol	ug/kg							
2,4,5-Trichlorophenol	ug/kg							
2,4,6-Trichlorophenol	ug/kg							
2,4-Dichlorophenol	ug/kg							
2,4-Dimethylphenol	ug/kg							
2,4-Dinitrophenol	ug/kg							
2,4-Dinitrotoluene	ug/kg							
2,6-Dinitrotoluene	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
	Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975
	Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
	Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40
	Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'
	Laboratory	LEA						
	Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg							
2-Chloronaphthalene	ug/kg							
2-Chlorophenol	ug/kg							
2-Methylnaphthalene	ug/kg							
2-Methylphenol (o-Cresol)	ug/kg							
2-Nitroaniline	ug/kg							
2-Nitrophenol	ug/kg							
2-Picoline (alpha-Picoline)	ug/kg							
3,3'-Dichlorobenzidine	ug/kg							
3,3'-Dimethylbenzidine	ug/kg							
3-Methylcholanthrene	ug/kg							
3-Methylphenol	ug/kg							
3-Nitroaniline	ug/kg							
4,6-Dinitro-2-methylphenol	ug/kg							
4-Aminobiphenyl (4-biphenylamine)	ug/kg							
4-Bromophenyl Phenyl Ether	ug/kg							
4-Chloro-3-methylphenol	ug/kg							
4-Chloroaniline	ug/kg							
4-Chlorophenyl Phenyl Ether	ug/kg							
4-Methylphenol (p-Cresol)	ug/kg							
4-Nitroaniline	ug/kg							
4-Nitrophenol	ug/kg							
4-Nitroquinoline-n-oxide	ug/kg							
5-Nitro-o-toluidine	ug/kg							
7,12-Dimethylbenz(a)anthracene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Acetophenone	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
	Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975
	Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
	Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40
	Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'
	Laboratory	LEA						
	Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Benzoic Acid	ug/kg							
Benzyl Alcohol	ug/kg							
Benzyl Butyl Phthalate	ug/kg							
Bis(2-chloroethoxy) Methane	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Di-n-butyl Phthalate	ug/kg							
Di-n-octylphthalate	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Diethyl Phthalate	ug/kg							
Dimethyl Phthalate	ug/kg							
Diphenylamine	ug/kg							
Ethyl Methanesulfonate	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Hexachlorobutadiene	ug/kg							
Hexachloroethane	ug/kg							
Hexachloropropene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Isophorone	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40	
Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	LEA
Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639	
Constituent	Units							
Isosafrole	ug/kg							
Methapyrilene	ug/kg							
Methyl Methanesulfonate	ug/kg							
Naphthalene	ug/kg							
Nitrobenzene	ug/kg							
Nitrosomethylethylamine	ug/kg							
Pentachlorophenol	ug/kg							
Phenacetin	ug/kg							
Phenanthrene	ug/kg							
Phenol	ug/kg							
Pronamide	ug/kg							
Pyrene	ug/kg							
Pyridine	ug/kg							
Safrole	ug/kg							
alpha,alpha-Dimethylphenethylamine	ug/kg							
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg							
bis(2-ethylhexyl) Phthalate	ug/kg							
n-Nitroso-di-n-butylamine	ug/kg							
n-Nitrosodi-n-propylamine	ug/kg							
n-Nitrosodiethylamine	ug/kg							
n-Nitrosodimethylamine	ug/kg							
n-Nitrosodiphenylamine	ug/kg							
n-Nitrosomorpholine	ug/kg							
n-Nitrosopiperidine	ug/kg							
n-Nitrosopyrrolidine	ug/kg							
o,o,o-Triethyl Phosphorothioate	ug/kg							
o-Toluidine	ug/kg							
p-Dimethylaminoazobenzene	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40	
Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639	
Constituent	Units							
p-Phenylenediamine	ug/kg							
trans-1,4-Dichloro-2-butene	ug/kg							
1,1,1,2-Tetrachloroethane	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1,1-Trichloroethane (screening)	ug/kg	<270	<280	<280	<270	<270	<250	<280
1,1,2,2-Tetrachloroethane	ug/kg							
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg							
1,1,2-Trichloroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg							
1,2,3-Trichloropropane	ug/kg							
1,2,4-Trichlorobenzene	ug/kg							
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg							
1,2-Dichlorobenzene	ug/kg							
1,2-Dichloroethane	ug/kg							
1,2-Dichloropropane	ug/kg							
1,3-Dichlorobenzene	ug/kg							
1,4-Dichlorobenzene	ug/kg							
1,4-Dioxane (p-Dioxane)	ug/kg							
2-Chloro-1,3-butadiene	ug/kg							
2-Hexanone	ug/kg							
Acetone	ug/kg							
Acetonitrile	ug/kg							
Acrolein	ug/kg							
Acrylonitrile	ug/kg							
Allyl Chloride (3-Chloropropene)	ug/kg							
Benzene	ug/kg							
Benzene (screening)	ug/kg	<27	<28	<28	<27	<27	<25	<28



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21						
Sample ID	2000969	2000970	2000971	2000972	2000973	2000974	2000975	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:15	10:18	10:20	10:25	10:30	10:32	10:40	
Sample Depth	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	35052-0633	35052-0634	35052-0635	35052-0636	35052-0637	35052-0638	35052-0639	
Constituent	Units							
Bromodichloromethane	ug/kg							
Bromoform	ug/kg							
Bromomethane	ug/kg							
Carbon Disulfide	ug/kg							
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg							
Chlorobenzene	ug/kg							
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg							
Chloroform	ug/kg							
Chloromethane	ug/kg							
Dibromochloromethane	ug/kg							
Dibromomethane	ug/kg							
Dichlorodifluoromethane	ug/kg							
Ethyl Methacrylate	ug/kg							
Ethylbenzene	ug/kg							
Ethylbenzene (screening)	ug/kg	<27	<28	<28	<27	<27	<25	<28
Iodomethane (methyl Iodide)	ug/kg							
Isobutanol	ug/kg							
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<41	<42	<41	<41	<41	<38	<42
Methyl Ethyl Ketone (2-Butanone)	ug/kg							
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg							
Methyl Methacrylate	ug/kg							
Methylacrylonitrile	ug/kg							
Methylene Chloride	ug/kg							
Pentachlorobenzene	ug/kg							
Pentachloroethane	ug/kg							
Pentachloronitrobenzene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998502	1998502
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:48	
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
Date PCBs Analyzed	-				08/24/2001			
Date Metals Analyzed	-				08/23/2001			
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/14/2001	08/14/2001	08/14/2001	08/23/2001	08/14/2001	08/14/2001	08/14/2001
Date Physical Analyzed	-				08/22/2001			
Date Semi-volatile Organics Analyzed	-				08/28/2001			
Dinoseb	ug/kg				<800 U			
Arsenic	mg/kg				0.64 B			
Barium	mg/kg				21.2 B			
Beryllium	mg/kg				0.13 B			
Cadmium	mg/kg				<0.61 U			
Chromium, Hexavalent	mg/kg				<1.2 U			
Chromium, Total	mg/kg				3.4			
Copper	mg/kg				3.8			
Lead	mg/kg				1.8			
Lead (TCLP)	mg/L							
Mercury	mg/kg				<0.18 U			
Nickel	mg/kg				7.4			
Selenium	mg/kg				0.53 B			
Silver	mg/kg				<1.2 U			
Zinc	mg/kg				9.5			
PCB-1016 (Arochlor 1016)	ug/kg				<240 U			
PCB-1221 (Arochlor 1221)	ug/kg				<240 U			
PCB-1232 (Arochlor 1232)	ug/kg				<240 U			
PCB-1242 (Arochlor 1242)	ug/kg				<240 U			
PCB-1248 (Arochlor 1248)	ug/kg				<240 U			
PCB-1254 (Arochlor 1254)	ug/kg				<240 U			
PCB-1260 (Arochlor 1260)	ug/kg				<240 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998501	1998502
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:19	11:48
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg			<7.3 U				
2-Acetylaminofluorene	ug/kg			<4000 U				
Aramite (total)	ug/kg			<800 U				
Dimethoate	ug/kg			<800 U				
Disulfoton	ug/kg			<1900 U				
Famphur	ug/kg			<4000 UJ				
Hexachlorobenzene	ug/kg			<400 U				
Hexachlorocyclopentadiene	ug/kg			<1900 U				
Phorate	ug/kg			<1900 U				
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg			<1900 U				
Zinophos	ug/kg			<1900 U				
Cyanide (Total)	mg/kg			<0.61 U				
Total Petroleum Hydrocarbons EPA 418.1	mg/kg			<61 U				
Total Solids	%			82.2				
1,2,4,5-Tetrachlorobenzene	ug/kg			<400 U				
1,3,5-Trinitrobenzene	ug/kg			<1900 U				
1,3-Dinitrobenzene	ug/kg			<400 U				
1,4-Naphthoquinone	ug/kg			<1900 U				
1-Naphthylamine	ug/kg			<400 U				
2,2'-Oxybis(2-chloropropane)	ug/kg			<400 U				
2,3,4,6-Tetrachlorophenol	ug/kg			<1900 U				
2,4,5-Trichlorophenol	ug/kg			<400 U				
2,4,6-Trichlorophenol	ug/kg			<400 U				
2,4-Dichlorophenol	ug/kg			<400 U				
2,4-Dimethylphenol	ug/kg			<400 U				
2,4-Dinitrophenol	ug/kg			<1900 U				
2,4-Dinitrotoluene	ug/kg			<400 U				
2,6-Dinitrotoluene	ug/kg			<400 U				



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998502	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:48	
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg			<400 U				
2-Chloronaphthalene	ug/kg			<400 U				
2-Chlorophenol	ug/kg			<400 U				
2-Methylnaphthalene	ug/kg			<400 U				
2-Methylphenol (o-Cresol)	ug/kg			<400 U				
2-Nitroaniline	ug/kg			<1900 U				
2-Nitrophenol	ug/kg			<400 U				
2-Picoline (alpha-Picoline)	ug/kg			<800 U				
3,3'-Dichlorobenzidine	ug/kg			<1900 U				
3,3'-Dimethylbenzidine	ug/kg			<1900 U				
3-Methylcholanthrene	ug/kg			<800 U				
3-Methylphenol	ug/kg			<400 U				
3-Nitroaniline	ug/kg			<1900 U				
4,6-Dinitro-2-methylphenol	ug/kg			<1900 U				
4-Aminobiphenyl (4-biphenylamine)	ug/kg			<1900 U				
4-Bromophenyl Phenyl Ether	ug/kg			<400 U				
4-Chloro-3-methylphenol	ug/kg			<400 U				
4-Chloroaniline	ug/kg			<400 U				
4-Chlorophenyl Phenyl Ether	ug/kg			<400 U				
4-Methylphenol (p-Cresol)	ug/kg			<400 U				
4-Nitroaniline	ug/kg			<1900 U				
4-Nitrophenol	ug/kg			<1900 U				
4-Nitroquinoline-n-oxide	ug/kg			<4000 U				
5-Nitro-o-toluidine	ug/kg			<800 U				
7,12-Dimethylbenz(a)anthracene	ug/kg			<800 U				
Acenaphthene	ug/kg			<400 U				
Acenaphthylene	ug/kg			<400 U				
Acetophenone	ug/kg			<400 U				



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998501	1998502
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:19	11:48
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg			<400 U				
Anthracene	ug/kg			<400 U				
Benzo(a)anthracene	ug/kg			<400 U				
Benzo(a)pyrene	ug/kg			<400 U				
Benzo(b)fluoranthene	ug/kg			<400 U				
Benzo(g,h,i)perylene	ug/kg			<400 U				
Benzo(k)fluoranthene	ug/kg			<400 U				
Benzoic Acid	ug/kg			<1900 U				
Benzyl Alcohol	ug/kg			<400 U				
Benzyl Butyl Phthalate	ug/kg			<400 U				
Bis(2-chloroethoxy) Methane	ug/kg			<400 U				
Carbazole	ug/kg			<400 U				
Chrysene	ug/kg			<400 U				
Di-n-butyl Phthalate	ug/kg			<400 U				
Di-n-octylphthalate	ug/kg			<400 U				
Dibenz(a,h)anthracene	ug/kg			<400 U				
Dibenzofuran	ug/kg			<400 U				
Diethyl Phthalate	ug/kg			<400 U				
Dimethyl Phthalate	ug/kg			<400 U				
Diphenylamine	ug/kg			<400 U				
Ethyl Methanesulfonate	ug/kg			<400 U				
Fluoranthene	ug/kg			<400 U				
Fluorene	ug/kg			<400 U				
Hexachlorobutadiene	ug/kg			<400 U				
Hexachloroethane	ug/kg			<400 U				
Hexachloropropene	ug/kg			<4000 U				
Indeno(1,2,3-c,d)pyrene	ug/kg			<400 U				
Isophorone	ug/kg			<400 U				



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998502	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:48	
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
Isosafrole	ug/kg			<800 U				
Methapyrilene	ug/kg			<1900 U				
Methyl Methanesulfonate	ug/kg			<400 U				
Naphthalene	ug/kg			<400 U				
Nitrobenzene	ug/kg			<400 U				
Nitrosomethylethylamine	ug/kg			<400 U				
Pentachlorophenol	ug/kg			<400 U				
Phenacetin	ug/kg			<800 U				
Phenanthrene	ug/kg			<400 U				
Phenol	ug/kg			<400 U				
Pronamide	ug/kg			<800 U				
Pyrene	ug/kg			<400 U				
Pyridine	ug/kg			<800 U				
Safrole	ug/kg			<800 U				
alpha,alpha-Dimethylphenethylamine	ug/kg			<1900 U				
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg			<400 U				
bis(2-ethylhexyl) Phthalate	ug/kg			<400 U				
n-Nitroso-di-n-butylamine	ug/kg			<400 U				
n-Nitrosodi-n-propylamine	ug/kg			<400 U				
n-Nitrosodiethylamine	ug/kg			<400 U				
n-Nitrosodimethylamine	ug/kg			<400 U				
n-Nitrosodiphenylamine	ug/kg			<400 U				
n-Nitrosomorpholine	ug/kg			<400 U				
n-Nitrosopiperidine	ug/kg			<400 U				
n-Nitrosopyrrolidine	ug/kg			<400 U				
o,o,o-Triethyl Phosphorothioate	ug/kg			<1900 U				
o-Toluidine	ug/kg			<800 U				
p-Dimethylaminoazobenzene	ug/kg			<800 U				

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998501	1998502
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:19	11:48
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
p-Phenylenediamine	ug/kg				<4000 U			
trans-1,4-Dichloro-2-butene	ug/kg				<6.1 U			
1,1,1,2-Tetrachloroethane	ug/kg				<6.1 U			
1,1,1-Trichloroethane	ug/kg				<6.1 U			
1,1,1-Trichloroethane (screening)	ug/kg	<270	<250	<270		<290	<290	<300
1,1,2,2-Tetrachloroethane	ug/kg				<6.1 U			
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg				<6.1 U			
1,1,2-Trichloroethane	ug/kg				<6.1 U			
1,1-Dichloroethane	ug/kg				<6.1 U			
1,1-Dichloroethene	ug/kg				<6.1 U			
1,2,3-Trichloropropane	ug/kg				<6.1 U			
1,2,4-Trichlorobenzene	ug/kg				<400 U			
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg				<6.1 U			
1,2-Dichlorobenzene	ug/kg				<400 U			
1,2-Dichloroethane	ug/kg				<6.1 U			
1,2-Dichloropropane	ug/kg				<6.1 U			
1,3-Dichlorobenzene	ug/kg				<400 U			
1,4-Dichlorobenzene	ug/kg				<400 U			
1,4-Dioxane (p-Dioxane)	ug/kg				<180 UR			
2-Chloro-1,3-butadiene	ug/kg				<6.1 U			
2-Hexanone	ug/kg				<61 U			
Acetone	ug/kg				<120 U			
Acetonitrile	ug/kg				<120 UR			
Acrolein	ug/kg				<120 U			
Acrylonitrile	ug/kg				<24 U			
Allyl Chloride (3-Chloropropene)	ug/kg				<120 U			
Benzene	ug/kg				<6.1 U			
Benzene (screening)	ug/kg	<27	<25	<27		<29	<29	<30

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
	Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998502
	Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
	Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:48
	Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'
	Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA
	Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645
Constituent	Units							
Bromodichloromethane	ug/kg				<6.1 U			
Bromoform	ug/kg				<6.1 U			
Bromomethane	ug/kg				<12 UJ			
Carbon Disulfide	ug/kg				<6.1 U			
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg				<6.1 U			
Chlorobenzene	ug/kg				<6.1 U			
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg				<12 U			
Chloroform	ug/kg				<6.1 U			
Chloromethane	ug/kg				<12 U			
Dibromochloromethane	ug/kg				<6.1 U			
Dibromomethane	ug/kg				<6.1 U			
Dichlorodifluoromethane	ug/kg				<6.1 UJ			
Ethyl Methacrylate	ug/kg				<6.1 U			
Ethylbenzene	ug/kg				<6.1 U			
Ethylbenzene (screening)	ug/kg	<27	<25	<27		<29	<29	<30
Iodomethane (methyl Iodide)	ug/kg				<7.3 U			
Isobutanol	ug/kg				<170 UR			
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<40	<38	<40		<43	<43	<44
Methyl Ethyl Ketone (2-Butanone)	ug/kg				<120 U			
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg				<6.1 U			
Methyl Methacrylate	ug/kg				<6.1 U			
Methylacrylonitrile	ug/kg				<6.1 U			
Methylene Chloride	ug/kg				<6.1 UJ			
Pentachlorobenzene	ug/kg				<400 U			
Pentachloroethane	ug/kg				<1900 U			
Pentachloronitrobenzene	ug/kg				<1900 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	2000976	1998499	1998500	1998500	1998501	1998501	1998501	1998502
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	10:42	10:50	11:01	11:01	11:19	11:19	11:19	11:48
Sample Depth	14' - 16'	16' - 20'	20' - 24'	20' - 24'	24' - 28'	24' - 28'	28' - 30'	
Laboratory	LEA	LEA	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	35052-0640	35052-0641	35052-0642	A1H140203001	35052-0643	35052-0644	35052-0645	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg				<9.7 U			
Styrene	ug/kg				<6.1 U			
Tetrachloroethylene (PCE)	ug/kg				<6.1 U			
Tetrachloroethylene (PCE) (screening)	ug/kg	<27	<25	<27		<29	<29	<30
Toluene	ug/kg				<6.1 U			
Toluene (screening)	ug/kg	<27	<25	<27		<29	<29	<30
Total 1,3-dichloropropene (cis and trans)	ug/kg				<6.1 U			
Trichloroethylene (TCE)	ug/kg				<6.1 U			
Trichloroethylene (TCE) (screening)	ug/kg	<27	<25	<27		<29	<29	<30
Trichlorofluoromethane	ug/kg				<12 U			
Vinyl Acetate	ug/kg				<6.1 U			
Vinyl Chloride	ug/kg				<12 U			
Xylenes	ug/kg				<6.1 U			
cis-1,2-Dichloroethylene	ug/kg				<6.1 U			
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<27	<25	<27		<29	<29	<30
tert-Butyl Methyl Ether	ug/kg				<6.1 U			
trans-1,2-Dichloroethene	ug/kg				<6.1 U			
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13		14:15
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'		38' - 40'
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA		LEA
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649		35052-0650
Constituent	Units							
Date PCBs Analyzed	-	08/24/2001			08/24/2001			
Date Metals Analyzed	-	08/23/2001			08/23/2001			
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/23/2001	08/14/2001	08/14/2001	08/23/2001	08/14/2001	08/14/2001	08/14/2001
Date Physical Analyzed	-	08/22/2001			08/22/2001			
Date Semi-volatile Organics Analyzed	-	08/28/2001			08/28/2001			
Dinoesb	ug/kg	<780 U			<930 U			
Arsenic	mg/kg	0.37 B			1.5			
Barium	mg/kg	13.4 B			96.4			
Beryllium	mg/kg	0.13 B			0.49 B			
Cadmium	mg/kg	<0.59 U			<0.70 U			
Chromium, Hexavalent	mg/kg	<1.2 U			0.59 B			
Chromium, Total	mg/kg	4.2			21.8			
Copper	mg/kg	3.4			21.9			
Lead	mg/kg	1.3			4.9			
Lead (TCLP)	mg/L							
Mercury	mg/kg	<0.18 U			<0.21 U			
Nickel	mg/kg	7.6			17.0			
Selenium	mg/kg	<0.59 U			<0.70 U			
Silver	mg/kg	<1.2 U			<1.4 U			
Zinc	mg/kg	10.4			55.0			
PCB-1016 (Arochlor 1016)	ug/kg	<240 U			<280 U			
PCB-1221 (Arochlor 1221)	ug/kg	<240 U			<280 U			
PCB-1232 (Arochlor 1232)	ug/kg	<240 U			<280 U			*
PCB-1242 (Arochlor 1242)	ug/kg	<240 U			<280 U			
PCB-1248 (Arochlor 1248)	ug/kg	<240 U			<280 U			
PCB-1254 (Arochlor 1254)	ug/kg	<240 U			<280 U			
PCB-1260 (Arochlor 1260)	ug/kg	<240 U			<280 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13	14:15	
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'	38' - 40'	
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649	35052-0650	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg	<7.1 U			<8.4 U			
2-Acetylaminofluorene	ug/kg	<3900 U			<4600 U			
Aramite (total)	ug/kg	<780 U			<930 U			
Dimethoate	ug/kg	<780 U			<930 U			
Disulfoton	ug/kg	<1900 U			<2200 U			
Famphur	ug/kg	<3900 UJ			<4600 UJ			
Hexachlorobenzene	ug/kg	<390 U			<460 U			
Hexachlorocyclopentadiene	ug/kg	<1900 U			<2200 U			
Phorate	ug/kg	<1900 U			<2200 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg	<1900 U			<2200 U			
Zinophos	ug/kg	<1900 U			<2200 U			
Cyanide (Total)	mg/kg	<0.59 U			2.4			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg	8.5 B			<70 U			
Total Solids	%	84.9			71.3			
1,2,4,5-Tetrachlorobenzene	ug/kg	<390 U			<460 U			
1,3,5-Trinitrobenzene	ug/kg	<1900 U			<2200 U			
1,3-Dinitrobenzene	ug/kg	<390 U			<460 U			
1,4-Naphthoquinone	ug/kg	<1900 U			<2200 U			
1-Naphthylamine	ug/kg	<390 U			<460 U			
2,2'-Oxybis(2-chloropropane)	ug/kg	<390 U			<460 U			
2,3,4,6-Tetrachlorophenol	ug/kg	<1900 U			<2200 U			
2,4,5-Trichlorophenol	ug/kg	<390 U			<460 U			
2,4,6-Trichlorophenol	ug/kg	<390 U			<460 U			
2,4-Dichlorophenol	ug/kg	<390 U			<460 U			
2,4-Dimethylphenol	ug/kg	<390 U			<460 U			
2,4-Dinitrophenol	ug/kg	<1900 U			<2200 U			
2,4-Dinitrotoluene	ug/kg	<390 U			<460 U			
2,6-Dinitrotoluene	ug/kg	<390 U			<460 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13		14:15
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'		38' - 40'
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA		LEA
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649		35052-0650
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg	<390 U			<460 U			
2-Chloronaphthalene	ug/kg	<390 U			<460 U			
2-Chlorophenol	ug/kg	<390 U			<460 U			
2-Methylnaphthalene	ug/kg	<390 U			<460 U			
2-Methylphenol (o-Cresol)	ug/kg	<390 U			<460 U			
2-Nitroaniline	ug/kg	<1900 U			<2200 U			
2-Nitrophenol	ug/kg	<390 U			<460 U			
2-Picoline (alpha-Picoline)	ug/kg	<780 U			<930 U			
3,3'-Dichlorobenzidine	ug/kg	<1900 U			<2200 U			
3,3'-Dimethylbenzidine	ug/kg	<1900 U			<2200 U			
3-Methylcholanthrene	ug/kg	<780 U			<930 U			
3-Methylphenol	ug/kg	<390 U			<460 U			
3-Nitroaniline	ug/kg	<1900 U			<2200 U			
4,6-Dinitro-2-methylphenol	ug/kg	<1900 U			<2200 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg	<1900 U			<2200 U			
4-Bromophenyl Phenyl Ether	ug/kg	<390 U			<460 U			
4-Chloro-3-methylphenol	ug/kg	<390 U			<460 U			
4-Chloroaniline	ug/kg	<390 U			<460 U			
4-Chlorophenyl Phenyl Ether	ug/kg	<390 U			<460 U			
4-Methylphenol (p-Cresol)	ug/kg	<390 U			<460 U			
4-Nitroaniline	ug/kg	<1900 U			<2200 U			
4-Nitrophenol	ug/kg	<1900 U			<2200 U			
4-Nitroquinoline-n-oxide	ug/kg	<3900 U			<4600 U			
5-Nitro-o-toluidine	ug/kg	<780 U			<930 U			
7,12-Dimethylbenz(a)anthracene	ug/kg	<780 U			<930 U			
Acenaphthene	ug/kg	<390 U			<460 U			
Acenaphthylene	ug/kg	<390 U			<460 U			
Acetophenone	ug/kg	<390 U			<460 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998506	1998507
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13	14:15	
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'	38' - 40'	
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649	35052-0650	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg	<390 U			<460 U			
Anthracene	ug/kg	<390 U			<460 U			
Benzo(a)anthracene	ug/kg	<390 U			<460 U			
Benzo(a)pyrene	ug/kg	<390 U			<460 U			
Benzo(b)fluoranthene	ug/kg	<390 U			<460 U			
Benzo(g,h,i)perylene	ug/kg	<390 U			<460 U			
Benzo(k)fluoranthene	ug/kg	<390 U			<460 U			
Benzoic Acid	ug/kg	<1900 U			<2200 U			
Benzyl Alcohol	ug/kg	<390 U			<460 U			
Benzyl Butyl Phthalate	ug/kg	<390 U			<460 U			
Bis(2-chloroethoxy) Methane	ug/kg	<390 U			<460 U			
Carbazole	ug/kg	<390 U			<460 U			
Chrysene	ug/kg	<390 U			<460 U			
Di-n-butyl Phthalate	ug/kg	<390 U			<460 U			
Di-n-octylphthalate	ug/kg	<390 U			<460 U			
Dibenz(a,h)anthracene	ug/kg	<390 U			<460 U			
Dibenzofuran	ug/kg	<390 U			<460 U			
Diethyl Phthalate	ug/kg	<390 U			<460 U			
Dimethyl Phthalate	ug/kg	<390 U			<460 U			
Diphenylamine	ug/kg	<390 U			<460 U			
Ethyl Methanesulfonate	ug/kg	<390 U			<460 U			
Fluoranthene	ug/kg	<390 U			<460 U			
Fluorene	ug/kg	<390 U			<460 U			
Hexachlorobutadiene	ug/kg	<390 U			<460 U			
Hexachloroethane	ug/kg	<390 U			<460 U			
Hexachloropropene	ug/kg	<3900 U			<4600 U			
Indeno(1,2,3-c,d)pyrene	ug/kg	<390 U			<460 U			
Isophorone	ug/kg	<390 U			<460 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13	14:15	
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'	38' - 40'	
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649	35052-0650	
Constituent	Units							
Isosafrole	ug/kg	<780 U			<930 U			
Methapyrilene	ug/kg	<1900 U			<2200 U			
Methyl Methanesulfonate	ug/kg	<390 U			<460 U			
Naphthalene	ug/kg	<390 U			<460 U			
Nitrobenzene	ug/kg	<390 U			<460 U			
Nitrosomethylethylamine	ug/kg	<390 U			<460 U			
Pentachlorophenol	ug/kg	<390 U			<460 U			
Phenacetin	ug/kg	<780 U			<930 U			
Phenanthrene	ug/kg	<390 U			<460 U			
Phenol	ug/kg	<390 U			<460 U			
Pronamide	ug/kg	<780 U			<930 U			
Pyrene	ug/kg	<390 U			<460 U			
Pyridine	ug/kg	<780 U			<930 U			
Safrole	ug/kg	<780 U			<930 U			
alpha,alpha-Dimethylphenethylamine	ug/kg	<1900 U			<2200 U			
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg	<390 U			<460 U			
bis(2-ethylhexyl) Phthalate	ug/kg	<390 U			<460 U			
n-Nitroso-di-n-butylamine	ug/kg	<390 U			<460 U			
n-Nitrosodi-n-propylamine	ug/kg	<390 U			<460 U			
n-Nitrosodiethylamine	ug/kg	<390 U			<460 U			
n-Nitrosodimethylamine	ug/kg	<390 U			<460 U			
n-Nitrosodiphenylamine	ug/kg	<390 U			<460 U			
n-Nitrosomorpholine	ug/kg	<390 U			<460 U			
n-Nitrosopiperidine	ug/kg	<390 U			<460 U			
n-Nitrosopyrrolidine	ug/kg	<390 U			<460 U			
o,o,o-Triethyl Phosphorothioate	ug/kg	<1900 U			<2200 U			
o-Toluidine	ug/kg	<780 U			<930 U			
p-Dimethylaminoazobenzene	ug/kg	<780 U			<930 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13	14:15	
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'	38' - 40'	
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649	35052-0650	
Constituent	Units							
p-Phenylenediamine	ug/kg	<3900 U			<4600 U			
trans-1,4-Dichloro-2-butene	ug/kg	<5.9 U			<7.0 U			
1,1,1,2-Tetrachloroethane	ug/kg	<5.9 U			<7.0 U			
1,1,1-Trichloroethane	ug/kg	<5.9 U			<7.0 U			
1,1,1-Trichloroethane (screening)	ug/kg		<260	<250		<270	<260	<250 NC
1,1,2,2-Tetrachloroethane	ug/kg	<5.9 U			<7.0 U			
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	<5.9 U			<7.0 U			
1,1,2-Trichloroethane	ug/kg	<5.9 U			<7.0 U			
1,1-Dichloroethane	ug/kg	<5.9 U			<7.0 U			
1,1-Dichloroethene	ug/kg	<5.9 U			<7.0 U			
1,2,3-Trichloropropane	ug/kg	<5.9 U			<7.0 U			
1,2,4-Trichlorobenzene	ug/kg	<390 U			<460 U			
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	<5.9 U			<7.0 U			
1,2-Dichlorobenzene	ug/kg	<390 U			<460 U			
1,2-Dichloroethane	ug/kg	<5.9 U			<7.0 U			
1,2-Dichloropropane	ug/kg	<5.9 U			<7.0 U			
1,3-Dichlorobenzene	ug/kg	<390 U			<460 U			
1,4-Dichlorobenzene	ug/kg	<390 U			<460 U			
1,4-Dioxane (p-Dioxane)	ug/kg	<180 UR			<210 UR			
2-Chloro-1,3-butadiene	ug/kg	<5.9 U			<7.0 U			
2-Hexanone	ug/kg	<59 U			<70 U			
Acetone	ug/kg	<120 U			<140 U			
Acetonitrile	ug/kg	<120 UR			<140 UR			
Acrolein	ug/kg	<120 U			<140 U			
Acrylonitrile	ug/kg	<24 U			<28 U			
Allyl Chloride (3-Chloropropene)	ug/kg	<120 U			<140 U			
Benzene	ug/kg	<5.9 U			<7.0 U			
Benzene (screening)	ug/kg		<26	<25		<27	<26	<25 NC

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21	ET-MW-21
Sample ID	1998502	1998503	1998504	1998504	1998505	1998506	1998507	
Sample Date	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001	08/13/2001
Sample Time	11:48	11:50	12:20	12:20	12:21	14:13	14:15	
Sample Depth	28' - 30'	30' - 32'	32' - 34'	32' - 34'	34' - 36'	36' - 38'	38' - 40'	
Laboratory	STLC	LEA	LEA	STLC	LEA	LEA	LEA	
Lab. Number	A1H140203003	35052-0646	35052-0647	A1H140203005	35052-0648	35052-0649	35052-0650	
Constituent	Units							
Bromodichloromethane	ug/kg	<5.9 U			<7.0 U			
Bromoform	ug/kg	<5.9 U			<7.0 U			
Bromomethane	ug/kg	<12 UJ			<14 UJ			
Carbon Disulfide	ug/kg	<5.9 U			<7.0 U			
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg	<5.9 U			<7.0 U			
Chlorobenzene	ug/kg	<5.9 U			<7.0 U			
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg	<12 U			<14 U			
Chloroform	ug/kg	<5.9 U			<7.0 U			
Chloromethane	ug/kg	<12 U			<14 U			
Dibromochloromethane	ug/kg	<5.9 U			<7.0 U			
Dibromomethane	ug/kg	<5.9 U			<7.0 U			
Dichlorodifluoromethane	ug/kg	<5.9 UJ			<7.0 UJ			
Ethyl Methacrylate	ug/kg	<5.9 U			<7.0 U			
Ethylbenzene	ug/kg	<5.9 U			<7.0 U			
Ethylbenzene (screening)	ug/kg		<26	<25		<27	<26	<25 NC
Iodomethane (methyl Iodide)	ug/kg	<7.1 U			<8.4 U			
Isobutanol	ug/kg	<160 UR			<200 UR			
M,p-xylene (sum Of Isomers) (screening)	ug/kg		<39	<38		<40	<38	<37 NC
Methyl Ethyl Ketone (2-Butanone)	ug/kg	<120 U			<140 U			
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg	<5.9 U			<7.0 U			
Methyl Methacrylate	ug/kg	<5.9 U			<7.0 U			
Methylacrylonitrile	ug/kg	<5.9 U			<7.0 U			
Methylene Chloride	ug/kg	<5.9 UJ			<7.0 UJ			
Pentachlorobenzene	ug/kg	<390 U			<460 U			
Pentachloroethane	ug/kg	<1900 U			<2200 U			
Pentachloronitrobenzene	ug/kg	<1900 U			<2200 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS



Loureiro Engineering Associates, Inc.



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352	
Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35	
Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	
Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375	
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/21/2001	07/31/2001	07/31/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Date Physical Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Dinoseb	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Lead (TCLP)	mg/L							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
PCB-1016 (Arochlor 1016)	ug/kg							
PCB-1221 (Arochlor 1221)	ug/kg							
PCB-1232 (Arochlor 1232)	ug/kg							
PCB-1242 (Arochlor 1242)	ug/kg							
PCB-1248 (Arochlor 1248)	ug/kg							
PCB-1254 (Arochlor 1254)	ug/kg							
PCB-1260 (Arochlor 1260)	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352	
Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35	
Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	
Laboratory	STLC	LEA						
Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg	<5.0 U						
2-Acetylaminofluorene	ug/kg							
Aramite (total)	ug/kg							
Dimethoate	ug/kg							
Disulfoton	ug/kg							
Famphur	ug/kg							
Hexachlorobenzene	ug/kg							
Hexachlorocyclopentadiene	ug/kg							
Phorate	ug/kg							
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg							
Zinophos	ug/kg							
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg							
Total Solids	%							
1,2,4,5-Tetrachlorobenzene	ug/kg							
1,3,5-Trinitrobenzene	ug/kg							
1,3-Dinitrobenzene	ug/kg							
1,4-Naphthoquinone	ug/kg							
1-Naphthylamine	ug/kg							
2,2'-Oxybis(2-chloropropane)	ug/kg							
2,3,4,6-Tetrachlorophenol	ug/kg							
2,4,5-Trichlorophenol	ug/kg							
2,4,6-Trichlorophenol	ug/kg							
2,4-Dichlorophenol	ug/kg							
2,4-Dimethylphenol	ug/kg							
2,4-Dinitrophenol	ug/kg							
2,4-Dinitrotoluene	ug/kg							
2,6-Dinitrotoluene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352	
Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	
Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35	
Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	
Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	AIH160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg							
2-Chloronaphthalene	ug/kg							
2-Chlorophenol	ug/kg							
2-Methylnaphthalene	ug/kg							
2-Methylphenol (o-Cresol)	ug/kg							
2-Nitroaniline	ug/kg							
2-Nitrophenol	ug/kg							
2-Picoline (alpha-Picoline)	ug/kg							
3,3'-Dichlorobenzidine	ug/kg							
3,3'-Dimethylbenzidine	ug/kg							
3-Methylcholanthrene	ug/kg							
3-Methylphenol	ug/kg							
3-Nitroaniline	ug/kg							
4,6-Dinitro-2-methylphenol	ug/kg							
4-Aminobiphenyl (4-biphenylamine)	ug/kg							
4-Bromophenyl Phenyl Ether	ug/kg							
4-Chloro-3-methylphenol	ug/kg							
4-Chloroaniline	ug/kg							
4-Chlorophenyl Phenyl Ether	ug/kg							
4-Methylphenol (p-Cresol)	ug/kg							
4-Nitroaniline	ug/kg							
4-Nitrophenol	ug/kg							
4-Nitroquinoline-n-oxide	ug/kg							
5-Nitro-o-toluidine	ug/kg							
7,12-Dimethylbenz(a)anthracene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Acetophenone	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
	Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352
	Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35
	Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'
	Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA
	Lab. Number	AIIH160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Benzoic Acid	ug/kg							
Benzyl Alcohol	ug/kg							
Benzyl Butyl Phthalate	ug/kg							
Bis(2-chloroethoxy) Methane	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Di-n-butyl Phthalate	ug/kg							
Di-n-octylphthalate	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Diethyl Phthalate	ug/kg							
Dimethyl Phthalate	ug/kg							
Diphenylamine	ug/kg							
Ethyl Methanesulfonate	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Hexachlorobutadiene	ug/kg							
Hexachloroethane	ug/kg							
Hexachloropropene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Isophorone	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352	
Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35	
Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	
Laboratory	STLC	LEA						
Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375	
Constituent	Units							
Isosafrole	ug/kg							
Methapyrilene	ug/kg							
Methyl Methanesulfonate	ug/kg							
Naphthalene	ug/kg							
Nitrobenzene	ug/kg							
Nitrosomethylethylamine	ug/kg							
Pentachlorophenol	ug/kg							
Phenacetin	ug/kg							
Phenanthrene	ug/kg							
Phenol	ug/kg							
Pronamide	ug/kg							
Pyrene	ug/kg							
Pyridine	ug/kg							
Safrole	ug/kg							
alpha,alpha-Dimethylphenethylamine	ug/kg							
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg							
bis(2-ethylhexyl) Phthalate	ug/kg							
n-Nitroso-di-n-butylamine	ug/kg							
n-Nitrosodi-n-propylamine	ug/kg							
n-Nitrosodiethylamine	ug/kg							
n-Nitrosodimethylamine	ug/kg							
n-Nitrosodiphenylamine	ug/kg							
n-Nitrosomorpholine	ug/kg							
n-Nitrosopiperidine	ug/kg							
n-Nitrosopyrrolidine	ug/kg							
o,o,o-Triethyl Phosphorothioate	ug/kg							
o-Toluidine	ug/kg							
p-Dimethylaminoazobenzene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
	Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352
	Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35
	Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'
	Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA
	Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375
Constituent	Units							
p-Phenylenediamine	ug/kg							
trans-1,4-Dichloro-2-butene	ug/kg	<5.0 U						
1,1,1,2-Tetrachloroethane	ug/kg	<1.0 U						
1,1,1-Trichloroethane	ug/kg	<5.0 U						
1,1,1-Trichloroethane (screening)	ug/kg		<280	<260	<300	<290	<280	<290
1,1,2,2-Tetrachloroethane	ug/kg	<0.50 U						
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	<1.0 U						
1,1,2-Trichloroethane	ug/kg	<5.0 U						
1,1-Dichloroethane	ug/kg	<5.0 U						
1,1-Dichloroethene	ug/kg	<1.0 U						
1,2,3-Trichloropropane	ug/kg	<5.0 U						
1,2,4-Trichlorobenzene	ug/kg							
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	<0.50 U						
1,2-Dichlorobenzene	ug/kg							
1,2-Dichloroethane	ug/kg	<1.0 U						
1,2-Dichloropropane	ug/kg	<5.0 U						
1,3-Dichlorobenzene	ug/kg							
1,4-Dichlorobenzene	ug/kg							
1,4-Dioxane (p-Dioxane)	ug/kg	<150 U						
2-Chloro-1,3-butadiene	ug/kg	<5.0 U						
2-Hexanone	ug/kg	<50 U						
Acetone	ug/kg	<100 U						
Acetonitrile	ug/kg	<100 U						
Acrolein	ug/kg	<5.0 U						
Acrylonitrile	ug/kg	<1.5 U						
Allyl Chloride (3-Chloropropene)	ug/kg	<100 U						
Benzene	ug/kg	<1.0 U						
Benzene (screening)	ug/kg		<28	<26	<15	<14	<14	<15

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
	Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352
	Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35
	Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'
	Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA
	Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375
Constituent	Units							
Bromodichloromethane	ug/kg	<5.0 U						
Bromoform	ug/kg	<4.0 U						
Bromomethane	ug/kg	<10 U						
Carbon Disulfide	ug/kg	<5.0 U						
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg	<5.0 U						
Chlorobenzene	ug/kg	<5.0 U						
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg	<2.0 U						
Chloroform	ug/kg	<1.0 U						
Chloromethane	ug/kg	<10 U						
Dibromochloromethane	ug/kg	<0.50 U						
Dibromomethane	ug/kg	<5.0 U						
Dichlorodifluoromethane	ug/kg	<5.0 U						
Ethyl Methacrylate	ug/kg	<5.0 U						
Ethylbenzene	ug/kg	<5.0 U						
Ethylbenzene (screening)	ug/kg		<28	<26	<30	<29	<28	<29
Iodomethane (methyl Iodide)	ug/kg	<5.0 U						
Isobutanol	ug/kg	<50 U						
M,p-xylene (sum Of Isomers) (screening)	ug/kg		<41	<39	<15	<14	<14	<15
Methyl Ethyl Ketone (2-Butanone)	ug/kg	<100 U						
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg	<5.0 U						
Methyl Methacrylate	ug/kg	<5.0 U						
Methylacrylonitrile	ug/kg	<5.0 U						
Methylene Chloride	ug/kg	<5.0 U						
Pentachlorobenzene	ug/kg							
Pentachloroethane	ug/kg							
Pentachloronitrobenzene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	ET-MW-21	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998507	1998361	1998362	1998349	1998350	1998351	1998352	
Sample Date	08/13/2001	07/30/2001	07/30/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	
Sample Time	14:15	11:55	12:03	10:20	10:25	10:30	10:35	
Sample Depth	38' - 40'	0' - 2'	2' - 3.5'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	
Laboratory	STLC	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	A1H160230005	35052-0484	35052-0485	197-0372	197-0373	197-0374	197-0375	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg	<5.0 U						
Styrene	ug/kg	<5.0 U						
Tetrachloroethylene (PCE)	ug/kg	<5.0 U						
Tetrachloroethylene (PCE) (screening)	ug/kg		<28	<26	<15	<14	<14	<15
Toluene	ug/kg	<5.0 U						
Toluene (screening)	ug/kg		<28	<26	<30	<29	<28	<29
Total 1,3-dichloropropene (cis and trans)	ug/kg	<0.50 U						
Trichloroethylene (TCE)	ug/kg	<5.0 U						
Trichloroethylene (TCE) (screening)	ug/kg		<28	<26	<30	<29	<28	<29
Trichlorofluoromethane	ug/kg	<5.0 U						
Vinyl Acetate	ug/kg	<5.0 U						
Vinyl Chloride	ug/kg	<2.0 U						
Xylenes	ug/kg	<5.0 U						
cis-1,2-Dichloroethylene	ug/kg	<5.0 U						
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg		<28	<26	<30	<29	<28	<29
tert-Butyl Methyl Ether	ug/kg	<5.0 U						
trans-1,2-Dichloroethene	ug/kg	<5.0 U						
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998357	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45	
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA	
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
Date PCBs Analyzed	-			08/28/2001			08/28/2001	
Date Metals Analyzed	-			08/15/2001			08/15/2001	
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/06/2001	08/06/2001	08/15/2001	08/06/2001	08/06/2001	08/15/2001	08/06/2001
Date Physical Analyzed	-			08/15/2001			08/15/2001	
Date Semi-volatile Organics Analyzed	-			08/16/2001			08/16/2001	
Dinoseb	ug/kg			<840			<800	
Arsenic	mg/kg			1.1			1.1	
Barium	mg/kg			15.1			17.4	
Beryllium	mg/kg			<0.64			<0.61	
Cadmium	mg/kg			<0.64			<0.61	
Chromium, Hexavalent	mg/kg			<6.4			<1.2	
Chromium, Total	mg/kg			4.5			5.8	
Copper	mg/kg			4.3			9.5	
Lead	mg/kg			3.4			3.1	
Lead (TCLP)	mg/L							
Mercury	mg/kg			<0.19			<0.18	
Nickel	mg/kg			5.3			7.3	
Selenium	mg/kg			<0.64			1.0	
Silver	mg/kg			<1.3			<1.2	
Zinc	mg/kg			14.7			17.1	
PCB-1016 (Arochlor 1016)	ug/kg			<250			<240	
PCB-1221 (Arochlor 1221)	ug/kg			<250			<240	
PCB-1232 (Arochlor 1232)	ug/kg			<250			<240	
PCB-1242 (Arochlor 1242)	ug/kg			<250			<240	
PCB-1248 (Arochlor 1248)	ug/kg			<250			<240	
PCB-1254 (Arochlor 1254)	ug/kg			<250			<240	
PCB-1260 (Arochlor 1260)	ug/kg			<250			<240	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998356	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45	
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA	
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg			<7.6			<7.3	
2-Acetylaminofluorene	ug/kg			<4200			<4000	
Aramite (total)	ug/kg			<840			<800	
Dimethoate	ug/kg			<840			<800	
Disulfoton	ug/kg			<2000			<2000	
Famphur	ug/kg			<4200			<4000	
Hexachlorobenzene	ug/kg			<420			<400	
Hexachlorocyclopentadiene	ug/kg			<2000			<2000	
Phorate	ug/kg			<2000			<2000	
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg			<2000			<2000	
Zinophos	ug/kg			<2000			<2000	
Cyanide (Total)	mg/kg			<0.64			<0.61	
Total Petroleum Hydrocarbons EPA 418.1	mg/kg			<64			<61	
Total Solids	%			78.5			82.0	
1,2,4,5-Tetrachlorobenzene	ug/kg			<420			<400	
1,3,5-Trinitrobenzene	ug/kg			<2000			<2000	
1,3-Dinitrobenzene	ug/kg			<420			<400	
1,4-Naphthoquinone	ug/kg			<2000			<2000	
1-Naphthylamine	ug/kg			<420			<400	
2,2'-Oxybis(2-chloropropane)	ug/kg			<420			<400	
2,3,4,6-Tetrachlorophenol	ug/kg			<2000			<2000	
2,4,5-Trichlorophenol	ug/kg			<420			<400	
2,4,6-Trichlorophenol	ug/kg			<420			<400	
2,4-Dichlorophenol	ug/kg			<420			<400	
2,4-Dimethylphenol	ug/kg			<420			<400	
2,4-Dinitrophenol	ug/kg			<2000			<2000	
2,4-Dinitrotoluene	ug/kg			<420			<400	
2,6-Dinitrotoluene	ug/kg			<420			<400	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
	Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998357
	Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45
	Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'
	Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA
	Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg			<420			<400	
2-Chloronaphthalene	ug/kg			<420			<400	
2-Chlorophenol	ug/kg			<420			<400	
2-Methylnaphthalene	ug/kg			<420			<400	
2-Methylphenol (o-Cresol)	ug/kg			<420			<400	
2-Nitroaniline	ug/kg			<2000			<2000	
2-Nitrophenol	ug/kg			<420			<400	
2-Picoline (alpha-Picoline)	ug/kg			<840			<800	
3,3'-Dichlorobenzidine	ug/kg			<2000			<2000	
3,3'-Dimethylbenzidine	ug/kg			<2000			<2000	
3-Methylcholanthrene	ug/kg			<840			<800	
3-Methylphenol	ug/kg			<420			<400	
3-Nitroaniline	ug/kg			<2000			<2000	
4,6-Dinitro-2-methylphenol	ug/kg			<2000			<2000	
4-Aminobiphenyl (4-biphenylamine)	ug/kg			<2000			<2000	
4-Bromophenyl Phenyl Ether	ug/kg			<420			<400	
4-Chloro-3-methylphenol	ug/kg			<420			<400	
4-Chloroaniline	ug/kg			<420			<400	
4-Chlorophenyl Phenyl Ether	ug/kg			<420			<400	
4-Methylphenol (p-Cresol)	ug/kg			<420			<400	
4-Nitroaniline	ug/kg			<2000			<2000	
4-Nitrophenol	ug/kg			<2000			<2000	
4-Nitroquinoline-n-oxide	ug/kg			<4200			<4000	
5-Nitro-o-toluidine	ug/kg			<840			<800	
7,12-Dimethylbenz(a)anthracene	ug/kg			<840			<800	
Acenaphthene	ug/kg			<420			<400	
Acenaphthylene	ug/kg			<420			<400	
Acetophenone	ug/kg			<420			<400	



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998356	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:35	11:45
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	14' - 16'	16' - 18'
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	STLC	LEA
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg			<420			<400	
Anthracene	ug/kg			<420			<400	
Benzo(a)anthracene	ug/kg			<420			<400	
Benzo(a)pyrene	ug/kg			<420			<400	
Benzo(b)fluoranthene	ug/kg			<420			<400	
Benzo(g,h,i)perylene	ug/kg			<420			<400	
Benzo(k)fluoranthene	ug/kg			<420			<400	
Benzoic Acid	ug/kg			<2000			<2000	
Benzyl Alcohol	ug/kg			<420			<400	
Benzyl Butyl Phthalate	ug/kg			<420			<400	
Bis(2-chloroethoxy) Methane	ug/kg			<420			<400	
Carbazole	ug/kg			<420			<400	
Chrysene	ug/kg			<420			<400	
Di-n-butyl Phthalate	ug/kg			<420			<400	
Di-n-octylphthalate	ug/kg			<420			<400	
Dibenz(a,h)anthracene	ug/kg			<420			<400	
Dibenzofuran	ug/kg			<420			<400	
Diethyl Phthalate	ug/kg			<420			<400	
Dimethyl Phthalate	ug/kg			<420			<400	
Diphenylamine	ug/kg			<420			<400	
Ethyl Methanesulfonate	ug/kg			<420			<400	
Fluoranthene	ug/kg			<420			<400	
Fluorene	ug/kg			<420			<400	
Hexachlorobutadiene	ug/kg			<420			<400	
Hexachloroethane	ug/kg			<420			<400	
Hexachloropropene	ug/kg			<4200			<4000	
Indeno(1,2,3-c,d)pyrene	ug/kg			<420			<400	
Isophorone	ug/kg			<420			<400	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
	Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998357
	Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45
	Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'
	Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA
	Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380
Constituent	Units							
Isosafrole	ug/kg			<840			<800	
Methapyrilene	ug/kg			<2000			<2000	
Methyl Methanesulfonate	ug/kg			<420			<400	
Naphthalene	ug/kg			<420			<400	
Nitrobenzene	ug/kg			<420			<400	
Nitrosomethyleneethylamine	ug/kg			<420			<400	
Pentachlorophenol	ug/kg			<420			<400	
Phenacetin	ug/kg			<840			<800	
Phenanthrene	ug/kg			<420			<400	
Phenol	ug/kg			<420			<400	
Pronamide	ug/kg			<840			<800	
Pyrene	ug/kg			<420			<400	
Pyridine	ug/kg			<840			<800	
Safrole	ug/kg			<840			<800	
alpha,alpha-Dimethylphenethylamine	ug/kg			<2000			<2000	
bis(2-chloroethyl) Ether (2-chloroethyl)	ug/kg			<420			<400	
bis(2-ethylhexyl) Phthalate	ug/kg			<420			<400	
n-Nitroso-di-n-butylamine	ug/kg			<420			<400	
n-Nitrosodi-n-propylamine	ug/kg			<420			<400	
n-Nitrosodiethylamine	ug/kg			<420			<400	
n-Nitrosodimethylamine	ug/kg			<420			<400	
n-Nitrosodiphenylamine	ug/kg			<420			<400	
n-Nitrosomorpholine	ug/kg			<420			<400	
n-Nitrosopiperidine	ug/kg			<420			<400	
n-Nitrosopyrrolidine	ug/kg			<420			<400	
o,o,o-Triethyl Phosphorothioate	ug/kg			<2000			<2000	
o-Toluidine	ug/kg			<840			<800	
p-Dimethylaminoazobenzene	ug/kg			<840			<800	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998356	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45	
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA	
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
p-Phenylenediamine	ug/kg			<4200			<4000	
trans-1,4-Dichloro-2-butene	ug/kg			<6.4			<6.1	
1,1,1,2-Tetrachloroethane	ug/kg			<6.4			<6.1	
1,1,1-Trichloroethane	ug/kg			<6.4			4.0	
1,1,1-Trichloroethane (screening)	ug/kg	<290	<280		<320	<290		<300
1,1,2,2-Tetrachloroethane	ug/kg			<6.4			<6.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg			<6.4			<6.1	
1,1,2-Trichloroethane	ug/kg			<6.4			<6.1	
1,1-Dichloroethane	ug/kg			<6.4			<6.1	
1,1-Dichloroethene	ug/kg			<6.4			2.0	
1,2,3-Trichloropropane	ug/kg			<6.4			<6.1	
1,2,4-Trichlorobenzene	ug/kg			<420			<400	
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg			<6.4			<6.1	
1,2-Dichlorobenzene	ug/kg			<420			<400	
1,2-Dichloroethane	ug/kg			<6.4			<6.1	
1,2-Dichloropropane	ug/kg			<6.4			<6.1	
1,3-Dichlorobenzene	ug/kg			<420			<400	
1,4-Dichlorobenzene	ug/kg			<420			<400	
1,4-Dioxane (p-Dioxane)	ug/kg			<190			<180	
2-Chloro-1,3-butadiene	ug/kg			<6.4			<6.1	
2-Hexanone	ug/kg			<64			<61	
Acetone	ug/kg			<130			3.1	
Acetonitrile	ug/kg			<130			<120	
Acrolein	ug/kg			<130			<120	
Acrylonitrile	ug/kg			<25			<24	
Allyl Chloride (3-Chloropropene)	ug/kg			<130			<120	
Benzene	ug/kg			<6.4			<6.1	
Benzene (screening)	ug/kg	<15	<14		<16	<15		<15

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998356	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:35	11:45
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA	
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
Bromodichloromethane	ug/kg			<6.4				<6.1
Bromoform	ug/kg			<6.4				<6.1
Bromomethane	ug/kg			<13				<12
Carbon Disulfide	ug/kg			<6.4				<6.1
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg			<6.4				<6.1
Chlorobenzene	ug/kg			<6.4				<6.1
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg			<13				<12
Chloroform	ug/kg			<6.4				<6.1
Chloromethane	ug/kg			<13				<12
Dibromochloromethane	ug/kg			<6.4				<6.1
Dibromomethane	ug/kg			<6.4				<6.1
Dichlorodifluoromethane	ug/kg			<6.4				<6.1
Ethyl Methacrylate	ug/kg			<6.4				<6.1
Ethylbenzene	ug/kg			<6.4				<6.1
Ethylbenzene (screening)	ug/kg	<29	<28		<32	<29		<30
Iodomethane (methyl Iodide)	ug/kg			<7.6				<7.3
Isobutanol	ug/kg			<180				<170
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<15	<14		<16	<15		<15
Methyl Ethyl Ketone (2-Butanone)	ug/kg			<130				<120
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg			<6.4				<6.1
Methyl Methacrylate	ug/kg			<6.4				<6.1
Methylacrylonitrile	ug/kg			<6.4				<6.1
Methylene Chloride	ug/kg			<6.4				<6.1
Pentachlorobenzene	ug/kg			<420				<400
Pentachloroethane	ug/kg			<2000				<2000
Pentachloronitrobenzene	ug/kg			<2000				<2000

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S	WT-GW-31S
Sample ID	1998353	1998354	1998354	1998355	1998356	1998356	1998356	1998357
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:00	11:05	11:05	11:30	11:35	11:35	11:45	
Sample Depth	8' - 10'	10' - 12'	10' - 12'	12' - 14'	14' - 16'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	STLC	LEA	LEA	STLC	LEA	
Lab. Number	197-0376	197-0377	A1H080137002	197-0378	197-0379	A1H080137004	197-0380	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg			<10			<9.8	
Styrene	ug/kg			<6.4			<6.1	
Tetrachloroethylene (PCE)	ug/kg			3.5			5.5	
Tetrachloroethylene (PCE) (screening)	ug/kg	<15	<14		<16	<15		<15
Toluene	ug/kg			<6.4			<6.1	
Toluene (screening)	ug/kg	<29	<28		<32	<29		<30
Total 1,3-dichloropropene (cis and trans)	ug/kg			<6.4			<6.1	
Trichloroethylene (TCE)	ug/kg			17			27	
Trichloroethylene (TCE) (screening)	ug/kg	<29	34		38	70		<30
Trichlorofluoromethane	ug/kg			<13			<12	
Vinyl Acetate	ug/kg			<6.4			<6.1	
Vinyl Chloride	ug/kg			<13			<12	
Xylenes	ug/kg			<6.4			<6.1	
cis-1,2-Dichloroethylene	ug/kg			<6.4			<6.1	
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<29	<28		<32	<29		<30
tert-Butyl Methyl Ether	ug/kg			<6.4			<6.1	
trans-1,2-Dichloroethene	ug/kg			<6.4			<6.1	
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
Date PCBs Analyzed	-							
Date Metals Analyzed	-							
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/06/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001
Date Physical Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Dinoseb	ug/kg							
Arsenic	mg/kg							
Barium	mg/kg							
Beryllium	mg/kg							
Cadmium	mg/kg							
Chromium, Hexavalent	mg/kg							
Chromium, Total	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Lead (TCLP)	mg/L							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
PCB-1016 (Arochlor 1016)	ug/kg							
PCB-1221 (Arochlor 1221)	ug/kg							
PCB-1232 (Arochlor 1232)	ug/kg							
PCB-1242 (Arochlor 1242)	ug/kg							
PCB-1248 (Arochlor 1248)	ug/kg							
PCB-1254 (Arochlor 1254)	ug/kg							
PCB-1260 (Arochlor 1260)	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg							
2-Acetylaminofluorene	ug/kg							
Aramite (total)	ug/kg							
Dimethoate	ug/kg							
Disulfoton	ug/kg							
Famphur	ug/kg							
Hexachlorobenzene	ug/kg							
Hexachlorocyclopentadiene	ug/kg							
Phorate	ug/kg							
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg							
Zinophos	ug/kg							
Cyanide (Total)	mg/kg							
Total Petroleum Hydrocarbons EPA 418.1	mg/kg							
Total Solids	%							
1,2,4,5-Tetrachlorobenzene	ug/kg							
1,3,5-Trinitrobenzene	ug/kg							
1,3-Dinitrobenzene	ug/kg							
1,4-Naphthoquinone	ug/kg							
1-Naphthylamine	ug/kg							
2,2'-Oxybis(2-chloropropane)	ug/kg							
2,3,4,6-Tetrachlorophenol	ug/kg							
2,4,5-Trichlorophenol	ug/kg							
2,4,6-Trichlorophenol	ug/kg							
2,4-Dichlorophenol	ug/kg							
2,4-Dimethylphenol	ug/kg							
2,4-Dinitrophenol	ug/kg							
2,4-Dinitrotoluene	ug/kg							
2,6-Dinitrotoluene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg							
2-Chloronaphthalene	ug/kg							
2-Chlorophenol	ug/kg							
2-Methylnaphthalene	ug/kg							
2-Methylphenol (o-Cresol)	ug/kg							
2-Nitroaniline	ug/kg							
2-Nitrophenol	ug/kg							
2-Picoline (alpha-Picoline)	ug/kg							
3,3'-Dichlorobenzidine	ug/kg							
3,3'-Dimethylbenzidine	ug/kg							
3-Methylcholanthrene	ug/kg							
3-Methylphenol	ug/kg							
3-Nitroaniline	ug/kg							
4,6-Dinitro-2-methylphenol	ug/kg							
4-Aminobiphenyl (4-biphenylamine)	ug/kg							
4-Bromophenyl Phenyl Ether	ug/kg							
4-Chloro-3-methylphenol	ug/kg							
4-Chloroaniline	ug/kg							
4-Chlorophenyl Phenyl Ether	ug/kg							
4-Methylphenol (p-Cresol)	ug/kg							
4-Nitroaniline	ug/kg							
4-Nitrophenol	ug/kg							
4-Nitroquinoline-n-oxide	ug/kg							
5-Nitro-o-toluidine	ug/kg							
7,12-Dimethylbenz(a)anthracene	ug/kg							
Acenaphthene	ug/kg							
Acenaphthylene	ug/kg							
Acetophenone	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg							
Anthracene	ug/kg							
Benzo(a)anthracene	ug/kg							
Benzo(a)pyrene	ug/kg							
Benzo(b)fluoranthene	ug/kg							
Benzo(g,h,i)perylene	ug/kg							
Benzo(k)fluoranthene	ug/kg							
Benzoic Acid	ug/kg							
Benzyl Alcohol	ug/kg							
Benzyl Butyl Phthalate	ug/kg							
Bis(2-chloroethoxy) Methane	ug/kg							
Carbazole	ug/kg							
Chrysene	ug/kg							
Di-n-butyl Phthalate	ug/kg							
Di-n-octylphthalate	ug/kg							
Dibenz(a,h)anthracene	ug/kg							
Dibenzofuran	ug/kg							
Diethyl Phthalate	ug/kg							
Dimethyl Phthalate	ug/kg							
Diphenylamine	ug/kg							
Ethyl Methanesulfonate	ug/kg							
Fluoranthene	ug/kg							
Fluorene	ug/kg							
Hexachlorobutadiene	ug/kg							
Hexachloroethane	ug/kg							
Hexachloropropene	ug/kg							
Indeno(1,2,3-c,d)pyrene	ug/kg							
Isophorone	ug/kg							



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
Isosafrole	ug/kg							
Methapyrilen	ug/kg							
Methyl Methanesulfonate	ug/kg							
Naphthalene	ug/kg							
Nitrobenzene	ug/kg							
Nitrosomethylethylamine	ug/kg							
Pentachlorophenol	ug/kg							
Phenacetin	ug/kg							
Phenanthrene	ug/kg							
Phenol	ug/kg							
Pronamide	ug/kg							
Pyrene	ug/kg							
Pyridine	ug/kg							
Safrole	ug/kg							
alpha,alpha-Dimethylphenethylamine	ug/kg							
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg							
bis(2-ethylhexyl) Phthalate	ug/kg							
n-Nitroso-di-n-butylamine	ug/kg							
n-Nitrosodi-n-propylamine	ug/kg							
n-Nitrosodiethylamine	ug/kg							
n-Nitrosodimethylamine	ug/kg							
n-Nitrosodiphenylamine	ug/kg							
n-Nitrosomorpholine	ug/kg							
n-Nitrosopiperidine	ug/kg							
n-Nitrosopyrrolidine	ug/kg							
o,o,o-Triethyl Phosphorothioate	ug/kg							
o-Toluidine	ug/kg							
p-Dimethylaminoazobenzene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
p-Phenylenediamine	ug/kg							
trans-1,4-Dichloro-2-butene	ug/kg							
1,1,1,2-Tetrachloroethane	ug/kg							
1,1,1-Trichloroethane	ug/kg							
1,1,1-Trichloroethane (screening)	ug/kg	<290	<250	<250	<260	<270	<260	<260
1,1,2,2-Tetrachloroethane	ug/kg							
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg							
1,1,2-Trichloroethane	ug/kg							
1,1-Dichloroethane	ug/kg							
1,1-Dichloroethene	ug/kg							
1,2,3-Trichloropropane	ug/kg							
1,2,4-Trichlorobenzene	ug/kg							
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg							
1,2-Dichlorobenzene	ug/kg							
1,2-Dichloroethane	ug/kg							
1,2-Dichloropropane	ug/kg							
1,3-Dichlorobenzene	ug/kg							
1,4-Dichlorobenzene	ug/kg							
1,4-Dioxane (p-Dioxane)	ug/kg							
2-Chloro-1,3-butadiene	ug/kg							
2-Hexanone	ug/kg							
Acetone	ug/kg							
Acetonitrile	ug/kg							
Acrolein	ug/kg							
Acrylonitrile	ug/kg							
Allyl Chloride (3-Chloropropene)	ug/kg							
Benzene	ug/kg	<15	<13	<13	<13	<13	<13	<13
Benzene (screening)	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-31S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S
Sample ID	1998358	1998387	1998388	1998389	1998390	1998391	1998392	
Sample Date	08/03/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:50	14:48	14:50	14:52	14:56	15:00	15:05	
Sample Depth	18' - 20'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	LEA	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0381	197-0302	197-0303	197-0304	197-0305	197-0306	197-0307	
Constituent	Units							
Bromodichloromethane	ug/kg							
Bromoform	ug/kg							
Bromomethane	ug/kg							
Carbon Disulfide	ug/kg							
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg							
Chlorobenzene	ug/kg							
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg							
Chloroform	ug/kg							
Chloromethane	ug/kg							
Dibromochloromethane	ug/kg							
Dibromomethane	ug/kg							
Dichlorodifluoromethane	ug/kg							
Ethyl Methacrylate	ug/kg							
Ethylbenzene	ug/kg							
Ethylbenzene (screening)	ug/kg	<29	<25	<25	<26	<27	<26	<26
Iodomethane (methyl Iodide)	ug/kg							
Isobutanol	ug/kg							
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<15	<13	<13	<13	<13	<13	<13
Methyl Ethyl Ketone (2-Butanone)	ug/kg							
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg							
Methyl Methacrylate	ug/kg							
Methylacrylonitrile	ug/kg							
Methylene Chloride	ug/kg							
Pentachlorobenzene	ug/kg							
Pentachloroethane	ug/kg							
Pentachloronitrobenzene	ug/kg							

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998396	1998448
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	197-0311	35052-0570
Constituent	Units							
Date PCBs Analyzed	-		08/13/2001		08/13/2001			
Date Metals Analyzed	-		08/07/2001		08/07/2001			
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/01/2001	08/10/2001	08/01/2001	08/10/2001	08/01/2001	08/01/2001	08/06/2001
Date Physical Analyzed	-		08/07/2001		08/07/2001			
Date Semi-volatile Organics Analyzed	-		08/10/2001		08/10/2001			
Dinoseb	ug/kg		<780 U		<1200 U			
Arsenic	mg/kg		1.7		0.59 B			
Barium	mg/kg		23.7		73.7			
Beryllium	mg/kg		0.46 B		0.53 B			
Cadmium	mg/kg		0.22 B		0.16 B			
Chromium, Hexavalent	mg/kg		<1.2 U		0.68 B			
Chromium, Total	mg/kg		9.6		9.5			
Copper	mg/kg		5.8		3.5 B			
Lead	mg/kg		8.9		3.4			
Lead (TCLP)	mg/L							
Mercury	mg/kg		<0.18 U		0.031 B			
Nickel	mg/kg		5.7		2.9 B			
Selenium	mg/kg		<0.59 U		0.66 B			
Silver	mg/kg		<1.2 U		<1.8 U			
Zinc	mg/kg		30.5		12.3			
PCB-1016 (Arochlor 1016)	ug/kg		<240 U		<370 U			
PCB-1221 (Arochlor 1221)	ug/kg		<240 U		<370 U			
PCB-1232 (Arochlor 1232)	ug/kg		<240 U		<370 U			
PCB-1242 (Arochlor 1242)	ug/kg		<240 U		<370 U			
PCB-1248 (Arochlor 1248)	ug/kg		<240 U		<370 U			
PCB-1254 (Arochlor 1254)	ug/kg		<240 U		<370 U			
PCB-1260 (Arochlor 1260)	ug/kg		<240 U		<370 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001	
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	11:35	
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	35052-0570	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg		<7.1 U		<11 U			
2-Acetylaminofluorene	ug/kg		<3900 U		<6000 U			
Aramite (total)	ug/kg		<780 U		<1200 U			
Dimethoate	ug/kg		<780 U		<1200 U			
Disulfoton	ug/kg		<1900 U		<2900 U			
Famphur	ug/kg		<3900 UJ		<6000 UJ			
Hexachlorobenzene	ug/kg		<390 U		<600 U			
Hexachlorocyclopentadiene	ug/kg		<1900 U		<2900 U			
Phorate	ug/kg		<1900 U		<2900 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg		<1900 U		<2900 U			
Zinophos	ug/kg		<1900 U		<2900 U			
Cyanide (Total)	mg/kg		<0.59 U		<0.91 U			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		69		38 B			
Total Solids	%		84.3		54.7			
1,2,4,5-Tetrachlorobenzene	ug/kg		<390 U		<600 U			
1,3,5-Trinitrobenzene	ug/kg		<1900 U		<2900 U			
1,3-Dinitrobenzene	ug/kg		<390 U		<600 U			
1,4-Naphthoquinone	ug/kg		<1900 U		<2900 U			
1-Naphthylamine	ug/kg		<390 UJ		<600 UJ			
2,2'-Oxybis(2-chloropropane)	ug/kg		<390 U		<600 U			
2,3,4,6-Tetrachlorophenol	ug/kg		<1900 U		<2900 U			
2,4,5-Trichlorophenol	ug/kg		<390 U		<600 U			
2,4,6-Trichlorophenol	ug/kg		<390 U		<600 U			
2,4-Dichlorophenol	ug/kg		<390 U		<600 U			
2,4-Dimethylphenol	ug/kg		<390 U		<600 U			
2,4-Dinitrophenol	ug/kg		<1900 U		<2900 U			
2,4-Dinitrotoluene	ug/kg		<390 U		<600 U			
2,6-Dinitrotoluene	ug/kg		<390 U		<600 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311		35052-0570
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg		<390 UJ		<600 UJ			
2-Chloronaphthalene	ug/kg		<390 U		<600 U			
2-Chlorophenol	ug/kg		<390 U		<600 U			
2-Methylnaphthalene	ug/kg		<390 U		<600 U			
2-Methyphenol (o-Cresol)	ug/kg		<390 U		<600 U			
2-Nitroaniline	ug/kg		<1900 U		<2900 U			
2-Nitrophenol	ug/kg		<390 U		<600 U			
2-Picoline (alpha-Picoline)	ug/kg		<780 U		<1200 U			
3,3'-Dichlorobenzidine	ug/kg		<1900 U		<2900 U			
3,3'-Dimethylbenzidine	ug/kg		<1900 U		<2900 U			
3-Methylcholanthrene	ug/kg		<780 U		<1200 U			
3-Methylphenol	ug/kg		<390 UJ		<600 UJ			
3-Nitroaniline	ug/kg		<1900 U		<2900 U			
4,6-Dinitro-2-methylphenol	ug/kg		<1900 U		<2900 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg		<1900 U		<2900 U			
4-Bromophenyl Phenyl Ether	ug/kg		<390 U		<600 U			
4-Chloro-3-methylphenol	ug/kg		<390 U		<600 U			
4-Chloroaniline	ug/kg		<390 U		<600 U			
4-Chlorophenyl Phenyl Ether	ug/kg		<390 U		<600 U			
4-Methylphenol (p-Cresol)	ug/kg		<390 U		<600 U			
4-Nitroaniline	ug/kg		<1900 U		<2900 U			
4-Nitrophenol	ug/kg		<1900 U		<2900 U			
4-Nitroquinoline-n-oxide	ug/kg		<3900 UJ		<6000 UJ			
5-Nitro-o-toluidine	ug/kg		<780 U		<1200 U			
7,12-Dimethylbenz(a)anthracene	ug/kg		<780 U		<1200 U			
Acenaphthene	ug/kg		150 J		<600 U			
Acenaphthylene	ug/kg		<390 U		<600 U			
Acetophenone	ug/kg		<390 U		<600 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	197-0311	35052-0570
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg		<390 U		<600 U			
Anthracene	ug/kg		<390 U		<600 U			
Benzo(a)anthracene	ug/kg		170 J		<600 U			
Benzo(a)pyrene	ug/kg		190 J		<600 U			
Benzo(b)fluoranthene	ug/kg		220 J		<600 U			
Benzo(g,h,i)perylene	ug/kg		140 J		<600 U			
Benzo(k)fluoranthene	ug/kg		120 J		<600 U			
Benzoic Acid	ug/kg		<1900 UJ		<2900 UJ			
Benzyl Alcohol	ug/kg		<390 U		<600 U			
Benzyl Butyl Phthalate	ug/kg		<390 U		<600 U			
Bis(2-chloroethoxy) Methane	ug/kg		<390 U		<600 U			
Carbazole	ug/kg		<390 U		<600 U			
Chrysene	ug/kg		200 J		<600 U			
Di-n-butyl Phthalate	ug/kg		<390 U		<600 U			
Di-n-octylphthalate	ug/kg		<390 U		<600 U			
Dibenz(a,h)anthracene	ug/kg		<390 U		<600 U			
Dibenzofuran	ug/kg		<390 U		<600 U			
Diethyl Phthalate	ug/kg		<390 U		<600 U			
Dimethyl Phthalate	ug/kg		<390 U		<600 U			
Diphenylamine	ug/kg		<390 U		<600 U			
Ethyl Methanesulfonate	ug/kg		<390 U		<600 U			
Fluoranthene	ug/kg		370 J		<600 U			
Fluorene	ug/kg		88 J		<600 U			
Hexachlorobutadiene	ug/kg		<390 U		<600 U			
Hexachloroethane	ug/kg		<390 U		<600 U			
Hexachloropropene	ug/kg		<3900 U		<6000 U			
Indeno(1,2,3-c,d)pyrene	ug/kg		110 J		<600 U			
Isophorone	ug/kg		<390 U		<600 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
	Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448
	Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
	Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	11:35
	Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
	Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA
	Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	35052-0570
Constituent	Units							
Isosafrole	ug/kg		<780 U		<1200 U			
Methapyrilen	ug/kg		<1900 U		<2900 U			
Methyl Methanesulfonate	ug/kg		<390 U		<600 U			
Naphthalene	ug/kg		<390 U		<600 U			
Nitrobenzene	ug/kg		<390 U		<600 U			
Nitrosomethylalkylamine	ug/kg		<390 U		<600 U			
Pentachlorophenol	ug/kg		<390 U		<600 U			
Phenacetin	ug/kg		<780 U		<1200 U			
Phenanthrene	ug/kg		<390 U		<600 U			
Phenol	ug/kg		<390 U		<600 U			
Pronamide	ug/kg		<780 U		<1200 U			
Pyrene	ug/kg		360 J		<600 U			
Pyridine	ug/kg		<780 U		<1200 U			
Safrole	ug/kg		<780 U		<1200 U			
alpha,alpha-Dimethylphenethylamine	ug/kg		<1900 U		<2900 U			
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg		<390 U		<600 U			
bis(2-ethylhexyl) Phthalate	ug/kg		<390 U		<600 U			
n-Nitroso-di-n-butylamine	ug/kg		<390 U		<600 U			
n-Nitrosodi-n-propylamine	ug/kg		<390 U		<600 U			
n-Nitrosodiethylamine	ug/kg		<390 U		<600 U			
n-Nitrosodimethylamine	ug/kg		<390 U		<600 U			
n-Nitrosodiphenylamine	ug/kg		<390 U		<600 U			
n-Nitrosomorpholine	ug/kg		<390 UJ		<600 UJ			
n-Nitrosopiperidine	ug/kg		<390 U		<600 U			
n-Nitrosopyrrolidine	ug/kg		<390 U		<600 U			
o,o,o-Triethyl Phosphorothioate	ug/kg		<1900 U		<2900 U			
o-Toluidine	ug/kg		<780 U		<1200 U			
p-Dimethylaminoazobenzene	ug/kg		<780 U		<1200 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	197-0311	35052-0570
Constituent	Units							
p-Phenylenediamine	ug/kg		<3900 U		<6000 U			
trans-1,4-Dichloro-2-butene	ug/kg		<5.9 U		<9.1 U			
1,1,1,2-Tetrachloroethane	ug/kg		<5.9 U		<9.1 U			
1,1,1-Trichloroethane	ug/kg		<5.9 U		<9.1 U			
1,1,1-Trichloroethane (screening)	ug/kg	<250		<320		<280	<270	<280
1,1,2,2-Tetrachloroethane	ug/kg		<5.9 U		<9.1 U			
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg		<5.9 U		<9.1 U			
1,1,2-Trichloroethane	ug/kg		<5.9 U		<9.1 U			
1,1-Dichloroethane	ug/kg		<5.9 U		<9.1 U			
1,1-Dichloroethene	ug/kg		1.5 J		<9.1 U			
1,2,3-Trichloropropane	ug/kg		<5.9 U		<9.1 U			
1,2,4-Trichlorobenzene	ug/kg		<390 U		<600 U			
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg		<5.9 U		<9.1 U			
1,2-Dichlorobenzene	ug/kg		<390 U		<600 U			
1,2-Dichloroethane	ug/kg		<5.9 U		<9.1 U			
1,2-Dichloropropane	ug/kg		<5.9 U		<9.1 U			
1,3-Dichlorobenzene	ug/kg		<390 U		<600 U			
1,4-Dichlorobenzene	ug/kg		<390 U		<600 U			
1,4-Dioxane (p-Dioxane)	ug/kg		<180 UR		<270 UR			
2-Chloro-1,3-butadiene	ug/kg		<5.9 U		<9.1 U			
2-Hexanone	ug/kg		<59 U		<91 U			
Acetone	ug/kg		21 J		270 J			
Acetonitrile	ug/kg		<120 UR		<180 UR			
Acrolein	ug/kg		<120 UJ		<180 UJ			
Acrylonitrile	ug/kg		<13 U		<20 U			
Allyl Chloride (3-Chloropropene)	ug/kg		<120 U		<180 U			
Benzene	ug/kg		<5.9 U		<9.1 U			
Benzene (screening)	ug/kg	<13		<16		<14	<14	<28

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998396	1998448
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	197-0311	35052-0570
Constituent	Units							
Bromodichloromethane	ug/kg		<5.9 U		<9.1 U			
Bromoform	ug/kg		<5.9 U		<9.1 U			
Bromomethane	ug/kg		<12 U		<18 U			
Carbon Disulfide	ug/kg		<5.9 U		<9.1 U			
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg		<5.9 U		<9.1 U			
Chlorobenzene	ug/kg		<5.9 U		<9.1 U			
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg		<12 U		<18 U			
Chloroform	ug/kg		<5.9 U		<9.1 U			
Chloromethane	ug/kg		<12 U		<18 U			
Dibromochloromethane	ug/kg		<5.9 U		<9.1 U			
Dibromomethane	ug/kg		<5.9 U		<9.1 U			
Dichlorodifluoromethane	ug/kg		<5.9 U		<9.1 U			
Ethyl Methacrylate	ug/kg		<5.9 U		<9.1 U			
Ethylbenzene	ug/kg		<5.9 U		<9.1 U			
Ethylbenzene (screening)	ug/kg	<25		<32		<28	<27	<28
Iodomethane (methyl Iodide)	ug/kg		<7.1 U		<11 U			
Isobutanol	ug/kg		<170 UR		<260 UR			
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<13		<16		<14	<14	<42
Methyl Ethyl Ketone (2-Butanone)	ug/kg		6.5 J		85 J			
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg		<5.9 U		<9.1 U			
Methyl Methacrylate	ug/kg		<5.9 U		<9.1 U			
Methylacrylonitrile	ug/kg		<5.9 U		<9.1 U			
Methylene Chloride	ug/kg		<5.9 UJ		<9.1 UJ			
Pentachlorobenzene	ug/kg		<390 U		<600 U			
Pentachloroethane	ug/kg		<1900 U		<2900 U			
Pentachloronitrobenzene	ug/kg		<1900 U		<2900 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-32S	WT-GW-33S
Sample ID	1998393	1998393	1998394	1998394	1998395	1998396	1998448	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/03/2001
Sample Time	15:10	15:10	15:23	15:23	15:25	15:25	15:25	11:35
Sample Depth	12' - 16'	12' - 16'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	STLC	LEA	STLC	LEA	LEA	LEA	LEA
Lab. Number	197-0308	A1H010261029	197-0309	A1H010261030	197-0310	197-0311	197-0311	35052-0570
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg		<9.5 UR		<15 UR			
Styrene	ug/kg		<5.9 U		<9.1 U			
Tetrachloroethylene (PCE)	ug/kg		<5.9 U		<9.1 U			
Tetrachloroethylene (PCE) (screening)	ug/kg	<13		<16		<14	<14	<28
Toluene	ug/kg		<5.9 U		<9.1 U			
Toluene (screening)	ug/kg	<25		<32		<28	<27	<28
Total 1,3-dichloropropene (cis and trans)	ug/kg		<5.9 U		<9.1 U			
Trichloroethylene (TCE)	ug/kg		19		<9.1 U			
Trichloroethylene (TCE) (screening)	ug/kg	85		<32		<28	<27	<28
Trichlorofluoromethane	ug/kg		<12 U		<18 U			
Vinyl Acetate	ug/kg		<5.9 UJ		<9.1 UJ			
Vinyl Chloride	ug/kg		<12 U		<18 U			
Xylenes	ug/kg		<5.9 U		<9.1 U			
cis-1,2-Dichloroethylene	ug/kg		<5.9 U		<9.1 U			
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<25		<32		<28	<27	<28
tert-Butyl Methyl Ether	ug/kg		<5.9 U		<9.1 U			
trans-1,2-Dichloroethene	ug/kg		<5.9 U		<9.1 U			
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442	1998442
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
Date PCBs Analyzed	-						08/17/2001	
Date Metals Analyzed	-						08/15/2001	
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/15/2001	08/06/2001
Date Physical Analyzed	-						08/15/2001	
Date Semi-volatile Organics Analyzed	-						08/16/2001	
Dinoseb	ug/kg						<810 U	
Arsenic	mg/kg						2.4	
Barium	mg/kg						32.5	
Beryllium	mg/kg						<0.62 U	
Cadmium	mg/kg						1.2	
Chromium, Hexavalent	mg/kg						<1.2 U	
Chromium, Total	mg/kg						9.3	
Copper	mg/kg						51.5	
Lead	mg/kg						27.4	
Lead (TCLP)	mg/L							
Mercury	mg/kg						0.086 B	
Nickel	mg/kg						10.1	
Selenium	mg/kg						1.1	
Silver	mg/kg						<1.2 U	
Zinc	mg/kg						56.0	
PCB-1016 (Arochlor 1016)	ug/kg						<250 U	
PCB-1221 (Arochlor 1221)	ug/kg						<250 U	
PCB-1232 (Arochlor 1232)	ug/kg						<250 U	
PCB-1242 (Arochlor 1242)	ug/kg						<250 U	
PCB-1248 (Arochlor 1248)	ug/kg						<250 U	
PCB-1254 (Arochlor 1254)	ug/kg						<250 U	
PCB-1260 (Arochlor 1260)	ug/kg						<250 U	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442	1998442
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg					<7.4 U		
2-Acetylaminofluorene	ug/kg					<4100 U		
Aramite (total)	ug/kg					<810 U		
Dimethoate	ug/kg					<810 U		
Disulfoton	ug/kg					<2000 U		
Famphur	ug/kg					<4100 UJ		
Hexachlorobenzene	ug/kg					<410 U		
Hexachlorocyclopentadiene	ug/kg					<2000 U		
Phorate	ug/kg					<2000 U		
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg					<2000 U		
Zinophos	ug/kg					<2000 U		
Cyanide (Total)	mg/kg					<0.62 U		
Total Petroleum Hydrocarbons EPA 418.1	mg/kg					17 B		
Total Solids	%					81.2		
1,2,4,5-Tetrachlorobenzene	ug/kg					<410 U		
1,3,5-Trinitrobenzene	ug/kg					<2000 U		
1,3-Dinitrobenzene	ug/kg					<410 U		
1,4-Naphthoquinone	ug/kg					<2000 U		
1-Naphthylamine	ug/kg					<410 U		
2,2'-Oxybis(2-chloropropane)	ug/kg					<410 U		
2,3,4,6-Tetrachlorophenol	ug/kg					<2000 U		
2,4,5-Trichlorophenol	ug/kg					<410 U		
2,4,6-Trichlorophenol	ug/kg					<410 U		
2,4-Dichlorophenol	ug/kg					<410 U		
2,4-Dimethylphenol	ug/kg					<410 U		
2,4-Dinitrophenol	ug/kg					<2000 U		
2,4-Dinitrotoluene	ug/kg					<410 U		
2,6-Dinitrotoluene	ug/kg					<410 U		

LEA

Loureiro Engineering Associates, Inc.

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442	
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg					<410 U		
2-Chloronaphthalene	ug/kg					<410 U		
2-Chlorophenol	ug/kg					<410 U		
2-Methylnaphthalene	ug/kg					<410 U		
2-Methylphenol (o-Cresol)	ug/kg					<410 U		
2-Nitroaniline	ug/kg					<2000 U		
2-Nitrophenol	ug/kg					<410 U		
2-Picoline (alpha-Picoline)	ug/kg					<810 U		
3,3'-Dichlorobenzidine	ug/kg					<2000 U		
3,3'-Dimethylbenzidine	ug/kg					<2000 U		
3-Methylcholanthrene	ug/kg					<810 U		
3-Methylphenol	ug/kg					<410 U		
3-Nitroaniline	ug/kg					<2000 U		
4,6-Dinitro-2-methylphenol	ug/kg					<2000 U		
4-Aminobiphenyl (4-biphenylamine)	ug/kg					<2000 U		
4-Bromophenyl Phenyl Ether	ug/kg					<410 U		
4-Chloro-3-methylphenol	ug/kg					<410 U		
4-Chloroaniline	ug/kg					<410 U		
4-Chlorophenyl Phenyl Ether	ug/kg					<410 U		
4-Methylphenol (p-Cresol)	ug/kg					<410 U		
4-Nitroaniline	ug/kg					<2000 U		
4-Nitrophenol	ug/kg					<2000 U		
4-Nitroquinoline-n-oxide	ug/kg					<4100 UJ		
5-Nitro-o-toluidine	ug/kg					<810 U		
7,12-Dimethylbenz(a)anthracene	ug/kg					<810 U		
Acenaphthene	ug/kg					<410 U		
Acenaphthylene	ug/kg					<410 U		
Acetophenone	ug/kg					<410 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442	1998442
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg					<410 U		
Anthracene	ug/kg					<410 U		
Benzo(a)anthracene	ug/kg					130 J		
Benzo(a)pyrene	ug/kg					170 J		
Benzo(b)fluoranthene	ug/kg					180 J		
Benzo(g,h,i)perylene	ug/kg					130 J		
Benzo(k)fluoranthene	ug/kg					140 J		
Benzoic Acid	ug/kg					<2000 U		
Benzyl Alcohol	ug/kg					<410 U		
Benzyl Butyl Phthalate	ug/kg					<410 U		
Bis(2-chloroethoxy) Methane	ug/kg					<410 U		
Carbazole	ug/kg					<410 U		
Chrysene	ug/kg					180 J		
Di-n-butyl Phthalate	ug/kg					<410 U		
Di-n-octylphthalate	ug/kg					<410 U		
Dibenz(a,h)anthracene	ug/kg					<410 U		
Dibenzofuran	ug/kg					<410 U		
Diethyl Phthalate	ug/kg					<410 U		
Dimethyl Phthalate	ug/kg					<410 U		
Diphenylamine	ug/kg					<410 U		
Ethyl Methanesulfonate	ug/kg					<410 U		
Fluoranthene	ug/kg					280 J		
Fluorene	ug/kg					<410 U		
Hexachlorobutadiene	ug/kg					<410 U		
Hexachloroethane	ug/kg					<410 U		
Hexachloropropene	ug/kg					<4100 U		
Indeno(1,2,3-c,d)pyrene	ug/kg					110 J		
Isophorone	ug/kg					<410 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
	Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442
	Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'
	Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA
	Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576
Constituent	Units							
Iisosafrole	ug/kg						<810 U	
Methapyrilene	ug/kg						<2000 U	
Methyl Methanesulfonate	ug/kg						<410 U	
Naphthalene	ug/kg						<410 U	
Nitrobenzene	ug/kg						<410 U	
Nitrosomethylalkylamine	ug/kg						<410 U	
Pentachlorophenol	ug/kg						<410 U	
Phenacetin	ug/kg						<810 U	
Phenanthrene	ug/kg						140 J	
Phenol	ug/kg						<410 U	
Pronamide	ug/kg						<810 U	
Pyrene	ug/kg						230 J	
Pyridine	ug/kg						<810 U	
Safrole	ug/kg						<810 U	
alpha,alpha-Dimethylphenethylamine	ug/kg						<2000 U	
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg						<410 U	
bis(2-ethylhexyl) Phthalate	ug/kg						<410 U	
n-Nitroso-di-n-butylamine	ug/kg						<410 U	
n-Nitrosodi-n-propylamine	ug/kg						<410 U	
n-Nitrosodiethylamine	ug/kg						<410 U	
n-Nitrosodimethylamine	ug/kg						<410 U	
n-Nitrosodiphenylamine	ug/kg						<410 U	
n-Nitrosomorpholine	ug/kg						<410 U	
n-Nitrosopiperidine	ug/kg						<410 U	
n-Nitrosopyrrolidine	ug/kg						<410 U	
o,o,o-Triethyl Phosphorothioate	ug/kg						<2000 U	
o-Toluidine	ug/kg						<810 U	
p-Dimethylaminoazobenzene	ug/kg						<810 U	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442	1998442
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
p-Phenylenediamine	ug/kg					<4100 U		
trans-1,4-Dichloro-2-butene	ug/kg					<6.2 U		
1,1,1,2-Tetrachloroethane	ug/kg					<6.2 U		
1,1,1-Trichloroethane	ug/kg					130		
1,1,1-Trichloroethane (screening)	ug/kg	<280	<280	<260	<280	<260		<310
1,1,2,2-Tetrachloroethane	ug/kg					<6.2 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg					<6.2 U		
1,1,2-Trichloroethane	ug/kg					<6.2 U		
1,1-Dichloroethane	ug/kg					3.2 J		
1,1-Dichloroethene	ug/kg					79		
1,2,3-Trichloropropane	ug/kg					<6.2 U		
1,2,4-Trichlorobenzene	ug/kg					<410 U		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg					<6.2 U		
1,2-Dichlorobenzene	ug/kg					<410 U		
1,2-Dichloroethane	ug/kg					<6.2 U		
1,2-Dichloropropane	ug/kg					<6.2 U		
1,3-Dichlorobenzene	ug/kg					<410 U		
1,4-Dichlorobenzene	ug/kg					<410 U		
1,4-Dioxane (p-Dioxane)	ug/kg					<180 UR		
2-Chloro-1,3-butadiene	ug/kg					<6.2 U		
2-Hexanone	ug/kg					<62 U		
Acetone	ug/kg					<120 U		
Acetonitrile	ug/kg					<120 UR		
Acrolein	ug/kg					<120 U		
Acrylonitrile	ug/kg					<25 U		
Allyl Chloride (3-Chloropropene)	ug/kg					<120 U		
Benzene	ug/kg					0.95 J		
Benzene (screening)	ug/kg	<28	<28	<26	<28	<26		<31

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
	Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998442
	Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
	Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'
	Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA
	Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576
Constituent	Units							
Bromodichloromethane	ug/kg						<6.2 U	
Bromoform	ug/kg						<6.2 U	
Bromomethane	ug/kg						<12 U	
Carbon Disulfide	ug/kg						<6.2 U	
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg						<6.2 U	
Chlorobenzene	ug/kg						<6.2 U	
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg						<12 U	
Chloroform	ug/kg						1.5 J	
Chloromethane	ug/kg						<12 U	
Dibromochloromethane	ug/kg						<6.2 U	
Dibromomethane	ug/kg						<6.2 U	
Dichlorodifluoromethane	ug/kg						<6.2 UJ	
Ethyl Methacrylate	ug/kg						<6.2 U	
Ethylbenzene	ug/kg						<6.2 U	
Ethylbenzene (screening)	ug/kg	<28	<28	<26	<28	<26		<31
Iodomethane (methyl Iodide)	ug/kg						<7.4 U	
Isobutanol	ug/kg						<170 UR	
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<41	<42	<39	<42	<39		<46
Methyl Ethyl Ketone (2-Butanone)	ug/kg						<120 U	
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg						<6.2 U	
Methyl Methacrylate	ug/kg						<6.2 U	
Methylacrylonitrile	ug/kg						<6.2 U	
Methylene Chloride	ug/kg						<6.2 UJ	
Pentachlorobenzene	ug/kg						<410 U	
Pentachloroethane	ug/kg						<2000 U	
Pentachloronitrobenzene	ug/kg						<2000 U	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S
Sample ID	1998449	1998438	1998439	1998440	1998441	1998441	1998441	1998442
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001
Sample Time	11:45	12:30	12:31	12:45	12:46	12:46	13:12	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	10' - 12'	12' - 14'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0571	35052-0572	35052-0573	35052-0574	35052-0575	A1H060128007	35052-0576	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg					<9.8 UR		
Styrene	ug/kg					<6.2 U		
Tetrachloroethylene (PCE)	ug/kg					<6.2 U		
Tetrachloroethylene (PCE) (screening)	ug/kg	<28	<28	<26	<28	<26		<31
Toluene	ug/kg					<6.2 U		
Toluene (screening)	ug/kg	<28	<28	<26	<28	<26		<31
Total 1,3-dichloropropene (cis and trans)	ug/kg					<6.2 U		
Trichloroethylene (TCE)	ug/kg					200		
Trichloroethylene (TCE) (screening)	ug/kg	<28	<28	<26	<28	540 E		130
Trichlorofluoromethane	ug/kg					<12 U		
Vinyl Acetate	ug/kg					<6.2 U		
Vinyl Chloride	ug/kg					<12 U		
Xylenes	ug/kg					<6.2 U		
cis-1,2-Dichloroethylene	ug/kg					2.3 J		
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<28	<28	<26	<28	<26		<31
tert-Butyl Methyl Ether	ug/kg					<6.2 U		
trans-1,2-Dichloroethene	ug/kg					<6.2 U		
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
Date PCBs Analyzed	-			08/17/2001		08/17/2001		
Date Metals Analyzed	-			08/15/2001		08/15/2001		
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/06/2001	08/06/2001	08/16/2001	08/06/2001	08/16/2001	08/06/2001	07/31/2001
Date Physical Analyzed	-			08/15/2001		08/15/2001		
Date Semi-volatile Organics Analyzed	-			08/16/2001		08/16/2001		
Dinoseb	ug/kg			<900 U		<750 U		
Arsenic	mg/kg			1.2 B		1.0 B		
Barium	mg/kg			30.5		29.1		
Beryllium	mg/kg			<0.68 U		<0.57 U		
Cadmium	mg/kg			<0.68 U		<0.57 U		
Chromium, Hexavalent	mg/kg			<1.4 U		<1.1 U		
Chromium, Total	mg/kg			5.4		4.5		
Copper	mg/kg			4.0		3.2		
Lead	mg/kg			2.7		2.2		
Lead (TCLP)	mg/L							
Mercury	mg/kg			<0.20 U		<0.17 U		
Nickel	mg/kg			5.5		4.7		
Selenium	mg/kg			0.55 B		0.41 B		
Silver	mg/kg			<1.4 U		<1.1 U		
Zinc	mg/kg			11.5		9.6		
PCB-1016 (Arochlor 1016)	ug/kg			<270 U		<230 U		
PCB-1221 (Arochlor 1221)	ug/kg			<270 U		<230 U		
PCB-1232 (Arochlor 1232)	ug/kg			<270 U		<230 U		
PCB-1242 (Arochlor 1242)	ug/kg			<270 U		<230 U		
PCB-1248 (Arochlor 1248)	ug/kg			<270 U		<230 U		
PCB-1254 (Arochlor 1254)	ug/kg			<270 U		<230 U		
PCB-1260 (Arochlor 1260)	ug/kg			<270 U		<230 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:22	
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	0' - 2'	
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580		197-0276
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg		<8.2 U		<6.8 U			
2-Acetylaminofluorene	ug/kg		<4500 U		<3700 U			
Aramite (total)	ug/kg		<900 U		<750 U			
Dimethoate	ug/kg		<900 U		<750 U			
Disulfoton	ug/kg		<2200 U		<1800 U			
Famphur	ug/kg		<4500 UJ		<3700 UJ			
Hexachlorobenzene	ug/kg		<450 U		<370 U			
Hexachlorocyclopentadiene	ug/kg		<2200 U		<1800 U			
Phorate	ug/kg		<2200 U		<1800 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg		<2200 U		<1800 U			
Zinophos	ug/kg		<2200 U		<1800 U			
Cyanide (Total)	mg/kg		<0.68 U		<0.57 U			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		<68 U		<57 U			
Total Solids	%		73.4		88.1			
1,2,4,5-Tetrachlorobenzene	ug/kg		<450 U		<370 U			
1,3,5-Trinitrobenzene	ug/kg		<2200 U		<1800 U			
1,3-Dinitrobenzene	ug/kg		<450 U		<370 U			
1,4-Naphthoquinone	ug/kg		<2200 U		<1800 U			
1-Naphthylamine	ug/kg		<450 U		<370 U			
2,2'-Oxybis(2-chloropropane)	ug/kg		<450 U		<370 U			
2,3,4,6-Tetrachlorophenol	ug/kg		<2200 U		<1800 U			
2,4,5-Trichlorophenol	ug/kg		<450 U		<370 U			
2,4,6-Trichlorophenol	ug/kg		<450 U		<370 U			
2,4-Dichlorophenol	ug/kg		<450 U		<370 U			
2,4-Dimethylphenol	ug/kg		<450 U		<370 U			
2,4-Dinitrophenol	ug/kg		<2200 U		<1800 U			
2,4-Dinitrotoluene	ug/kg		<450 U		<370 U			
2,6-Dinitrotoluene	ug/kg		<450 U		<370 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg		<450 U		<370 U			
2-Chloronaphthalene	ug/kg		<450 U		<370 U			
2-Chlorophenol	ug/kg		<450 U		<370 U			
2-Methylnaphthalene	ug/kg		<450 U		<370 U			
2-Methylphenol (o-Cresol)	ug/kg		<450 U		<370 U			
2-Nitroaniline	ug/kg		<2200 U		<1800 U			
2-Nitrophenol	ug/kg		<450 U		<370 U			
2-Picoline (alpha-Picoline)	ug/kg		<900 U		<750 U			
3,3'-Dichlorobenzidine	ug/kg		<2200 U		<1800 U			
3,3'-Dimethylbenzidine	ug/kg		<2200 U		<1800 U			
3-Methylcholanthrene	ug/kg		<900 U		<750 U			
3-Methylphenol	ug/kg		<450 U		<370 U			
3-Nitroaniline	ug/kg		<2200 U		<1800 U			
4,6-Dinitro-2-methylphenol	ug/kg		<2200 U		<1800 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg		<2200 U		<1800 U			
4-Bromophenyl Phenyl Ether	ug/kg		<450 U		<370 U			
4-Chloro-3-methylphenol	ug/kg		<450 U		<370 U			
4-Chloroaniline	ug/kg		<450 U		<370 U			
4-Chlorophenyl Phenyl Ether	ug/kg		<450 U		<370 U			
4-Methylphenol (p-Cresol)	ug/kg		<450 U		<370 U			
4-Nitroaniline	ug/kg		<2200 U		<1800 U			
4-Nitrophenol	ug/kg		<2200 U		<1800 U			
4-Nitroquinoline-n-oxide	ug/kg		<4500 UJ		<3700 UJ			
5-Nitro-o-toluidine	ug/kg		<900 U		<750 U			
7,12-Dimethylbenz(a)anthracene	ug/kg		<900 U		<750 U			
Acenaphthene	ug/kg		<450 U		<370 U			
Acenaphthylene	ug/kg		<450 U		<370 U			
Acetophenone	ug/kg		<450 U		<370 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg			<450 U		<370 U		
Anthracene	ug/kg			<450 U		<370 U		
Benzo(a)anthracene	ug/kg			<450 U		<370 U		
Benzo(a)pyrene	ug/kg			<450 U		<370 U		
Benzo(b)fluoranthene	ug/kg			<450 U		<370 U		
Benzo(g,h,i)perylene	ug/kg			<450 U		<370 U		
Benzo(k)fluoranthene	ug/kg			<450 U		<370 U		
Benzoic Acid	ug/kg			<2200 U		<1800 U		
Benzyl Alcohol	ug/kg			<450 U		<370 U		
Benzyl Butyl Phthalate	ug/kg			<450 U		<370 U		
Bis(2-chloroethoxy) Methane	ug/kg			<450 U		<370 U		
Carbazole	ug/kg			<450 U		<370 U		
Chrysene	ug/kg			<450 U		<370 U		
Di-n-butyl Phthalate	ug/kg			<450 U		<370 U		
Di-n-octylphthalate	ug/kg			<450 U		<370 U		
Dibenz(a,h)anthracene	ug/kg			<450 U		<370 U		
Dibenzofuran	ug/kg			<450 U		<370 U		
Diethyl Phthalate	ug/kg			<450 U		<370 U		
Dimethyl Phthalate	ug/kg			<450 U		<370 U		
Diphenylamine	ug/kg			<450 U		<370 U		
Ethyl Methanesulfonate	ug/kg			<450 U		<370 U		
Fluoranthene	ug/kg			<450 U		<370 U		
Fluorene	ug/kg			<450 U		<370 U		
Hexachlorobutadiene	ug/kg			<450 U		<370 U		
Hexachloroethane	ug/kg			<450 U		<370 U		
Hexachloropropene	ug/kg			<4500 U		<3700 U		
Indeno(1,2,3-c,d)pyrene	ug/kg			<450 U		<370 U		
Isophorone	ug/kg			<450 U		<370 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
Iosafrole	ug/kg			<900 U		<750 U		
Methapyrilene	ug/kg			<2200 U		<1800 U		
Methyl Methanesulfonate	ug/kg			<450 U		<370 U		
Naphthalene	ug/kg			<450 U		<370 U		
Nitrobenzene	ug/kg			<450 U		<370 U		
Nitrosomethylalkylamine	ug/kg			<450 U		<370 U		
Pentachlorophenol	ug/kg			<450 U		<370 U		
Phenacetin	ug/kg			<900 U		<750 U		
Phenanthrene	ug/kg			<450 U		<370 U		
Phenol	ug/kg			<450 U		<370 U		
Pronamide	ug/kg			<900 U		<750 U		
Pyrene	ug/kg			<450 U		<370 U		
Pyridine	ug/kg			<900 U		<750 U		
Safrole	ug/kg			<900 U		<750 U		
alpha,alpha-Dimethylphenethylamine	ug/kg			<2200 U		<1800 U		
bis(2-chloroethyl) Ether (2-chloroethyl)	ug/kg			<450 U		<370 U		
bis(2-ethylhexyl) Phthalate	ug/kg			<450 U		<370 U		
n-Nitroso-di-n-butylamine	ug/kg			<450 U		<370 U		
n-Nitrosodi-n-propylamine	ug/kg			<450 U		<370 U		
n-Nitrosodiethylamine	ug/kg			<450 U		<370 U		
n-Nitrosodimethylamine	ug/kg			<450 U		<370 U		
n-Nitrosodiphenylamine	ug/kg			<450 U		<370 U		
n-Nitrosomorpholine	ug/kg			<450 U		<370 U		
n-Nitrosopiperidine	ug/kg			<450 U		<370 U		
n-Nitrosopyrrolidine	ug/kg			<450 U		<370 U		
o,o,o-Triethyl Phosphorothioate	ug/kg			<2200 U		<1800 U		
o-Toluidine	ug/kg			<900 U		<750 U		
p-Dimethylaminoazobenzene	ug/kg			<900 U		<750 U		



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
p-Phenylenediamine	ug/kg			<4500 U		<3700 U		
trans-1,4-Dichloro-2-butene	ug/kg			<6.8 U		<5.7 U		
1,1,1,2-Tetrachloroethane	ug/kg			<6.8 U		<5.7 U		
1,1,1-Trichloroethane	ug/kg			<6.8 U		<5.7 U		
1,1,1-Trichloroethane (screening)	ug/kg	<290	<260		<260		<260	<280
1,1,2,2-Tetrachloroethane	ug/kg			<6.8 U		<5.7 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg			<6.8 U		<5.7 U		
1,1,2-Trichloroethane	ug/kg			<6.8 U		<5.7 U		
1,1-Dichloroethane	ug/kg			<6.8 U		<5.7 U		
1,1-Dichloroethene	ug/kg			<6.8 U		<5.7 U		
1,2,3-Trichloropropane	ug/kg			<6.8 U		<5.7 U		
1,2,4-Trichlorobenzene	ug/kg			<450 U		<370 U		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg			<6.8 U		<5.7 U		
1,2-Dichlorobenzene	ug/kg			<450 U		<370 U		
1,2-Dichloroethane	ug/kg			<6.8 U		<5.7 U		
1,2-Dichloropropane	ug/kg			<6.8 U		<5.7 U		
1,3-Dichlorobenzene	ug/kg			<450 U		<370 U		
1,4-Dichlorobenzene	ug/kg			<450 U		<370 U		
1,4-Dioxane (p-Dioxane)	ug/kg			<200 UR		<170 UR		
2-Chloro-1,3-butadiene	ug/kg			<6.8 U		<5.7 U		
2-Hexanone	ug/kg			<68 U		<57 U		
Acetone	ug/kg			43 J		32 J		
Acetonitrile	ug/kg			<140 UR		<110 UR		
Acrolein	ug/kg			<140 U		<110 U		
Acrylonitrile	ug/kg			<27 U		<23 U		
Allyl Chloride (3-Chloropropene)	ug/kg			<140 U		<110 U		
Benzene	ug/kg			<6.8 U		<5.7 U		
Benzene (screening)	ug/kg	<29	<26		<26		<26	<14

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998363	
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	197-0276	
Constituent	Units							
Bromodichloromethane	ug/kg			<6.8 U		<5.7 U		
Bromoform	ug/kg			<6.8 U		<5.7 U		
Bromomethane	ug/kg			<14 U		<11 U		
Carbon Disulfide	ug/kg			<6.8 U		<5.7 U		
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg			<6.8 U		<5.7 U		
Chlorobenzene	ug/kg			<6.8 U		<5.7 U		
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg			<14 U		<11 U		
Chloroform	ug/kg			<6.8 U		<5.7 U		
Chloromethane	ug/kg			<14 U		<11 U		
Dibromochloromethane	ug/kg			<6.8 U		<5.7 U		
Dibromomethane	ug/kg			<6.8 U		<5.7 U		
Dichlorodifluoromethane	ug/kg			<6.8 UJ		<5.7 UJ		
Ethyl Methacrylate	ug/kg			<6.8 U		<5.7 U		
Ethylbenzene	ug/kg			<6.8 U		<5.7 U		
Ethylbenzene (screening)	ug/kg	<29	<26		<26		<26	<28
Iodomethane (methyl Iodide)	ug/kg			<8.2 U		<6.8 U		
Isobutanol	ug/kg			<190 UR		<160 UR		
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<44	<38		<38		<38	<14
Methyl Ethyl Ketone (2-Butanone)	ug/kg			13 J		11 J		
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg			<6.8 U		<5.7 U		
Methyl Methacrylate	ug/kg			<6.8 U		<5.7 U		
Methylacrylonitrile	ug/kg			<6.8 U		<5.7 U		
Methylene Chloride	ug/kg			<6.8 UJ		<5.7 UJ		
Pentachlorobenzene	ug/kg			<450 U		<370 U		
Pentachloroethane	ug/kg			<2200 U		<1800 U		
Pentachloronitrobenzene	ug/kg			<2200 U		<1800 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-33S	WT-GW-34S
Sample ID	1998443	1998444	1998444	1998445	1998445	1998446	1998446	1998363
Sample Date	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	08/03/2001	07/30/2001
Sample Time	13:11	13:40	13:40	13:41	13:41	13:42	13:42	13:22
Sample Depth	14' - 16'	16' - 18'	16' - 18'	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	35052-0577	35052-0578	A1H060128010	35052-0579	A1H060128011	35052-0580	35052-0580	197-0276
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg			<11 UR		<9.1 UR		
Styrene	ug/kg			<6.8 U		<5.7 U		
Tetrachloroethylene (PCE)	ug/kg			<6.8 U		<5.7 U		
Tetrachloroethylene (PCE) (screening)	ug/kg	<29	<26		<26		<26	<14
Toluene	ug/kg			<6.8 U		<5.7 U		
Toluene (screening)	ug/kg	<29	<26		<26		<26	<28
Total 1,3-dichloropropene (cis and trans)	ug/kg			<6.8 U		<5.7 U		
Trichloroethylene (TCE)	ug/kg			<6.8 U		<5.7 U		
Trichloroethylene (TCE) (screening)	ug/kg	<29	<26		<26		<26	<28
Trichlorofluoromethane	ug/kg			<14 U		<11 U		
Vinyl Acetate	ug/kg			<6.8 U		<5.7 U		
Vinyl Chloride	ug/kg			<14 U		<11 U		
Xylenes	ug/kg			<6.8 U		<5.7 U		
cis-1,2-Dichloroethylene	ug/kg			1.4 J		<5.7 U		
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<29	<26		<26		<26	<28
tert-Butyl Methyl Ether	ug/kg			<6.8 U		<5.7 U		
trans-1,2-Dichloroethene	ug/kg			<6.8 U		<5.7 U		
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998369	
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
Date PCBs Analyzed	-					08/13/2001		
Date Metals Analyzed	-					08/07/2001		
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/10/2001	07/31/2001	07/31/2001
Date Physical Analyzed	-					08/07/2001		
Date Semi-volatile Organics Analyzed	-					08/10/2001		
Dinoseb	ug/kg					<790 U		
Arsenic	mg/kg					1.5		
Barium	mg/kg					17.5 B		
Beryllium	mg/kg					0.17 B		
Cadmium	mg/kg					0.90		
Chromium, Hexavalent	mg/kg					<1.2 U		
Chromium, Total	mg/kg					4.1		
Copper	mg/kg					6.7		
Lead	mg/kg					13.0		
Lead (TCLP)	mg/L							
Mercury	mg/kg					0.056 B		
Nickel	mg/kg					4.3 B		
Selenium	mg/kg					<0.60 U		
Silver	mg/kg					<1.2 U		
Zinc	mg/kg					14.2		
PCB-1016 (Arochlor 1016)	ug/kg					<240 U		
PCB-1221 (Arochlor 1221)	ug/kg					<240 U		
PCB-1232 (Arochlor 1232)	ug/kg					<240 U		
PCB-1242 (Arochlor 1242)	ug/kg					<240 U		
PCB-1248 (Arochlor 1248)	ug/kg					<240 U		
PCB-1254 (Arochlor 1254)	ug/kg					<240 U		
PCB-1260 (Arochlor 1260)	ug/kg					<240 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998369	
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg				<7.2 U			
2-Acetylaminofluorene	ug/kg				<4000 U			
Aramite (total)	ug/kg				<790 U			
Dimethoate	ug/kg				<790 U			
Disulfoton	ug/kg				<1900 U			
Famphur	ug/kg				<4000 UJ			
Hexachlorobenzene	ug/kg				<400 U			
Hexachlorocyclopentadiene	ug/kg				<1900 U			
Phorate	ug/kg				<1900 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg				<1900 U			
Zinophos	ug/kg				<1900 U			
Cyanide (Total)	mg/kg				<0.60 U			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg				79			
Total Solids	%				83.3			
1,2,4,5-Tetrachlorobenzene	ug/kg				<400 U			
1,3,5-Trinitrobenzene	ug/kg				<1900 U			
1,3-Dinitrobenzene	ug/kg				<400 U			
1,4-Naphthoquinone	ug/kg				<1900 U			
1-Naphthylamine	ug/kg				<400 UJ			
2,2'-Oxybis(2-chloropropane)	ug/kg				<400 U			
2,3,4,6-Tetrachlorophenol	ug/kg				<1900 U			
2,4,5-Trichlorophenol	ug/kg				<400 U			
2,4,6-Trichlorophenol	ug/kg				<400 U			
2,4-Dichlorophenol	ug/kg				<400 U			
2,4-Dimethylphenol	ug/kg				<400 U			
2,4-Dinitrophenol	ug/kg				<1900 U			
2,4-Dinitrotoluene	ug/kg				<400 U			
2,6-Dinitrotoluene	ug/kg				<400 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998368	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg				<400 UJ			
2-Chloronaphthalene	ug/kg				<400 U			
2-Chlorophenol	ug/kg				<400 U			
2-Méthynaphthalene	ug/kg				<400 U			
2-Methylphenol (o-Cresol)	ug/kg				<400 U			
2-Nitroaniline	ug/kg				<1900 U			
2-Nitrophenol	ug/kg				<400 U			
2-Picoline (alpha-Picoline)	ug/kg				<790 U			
3,3'-Dichlorobenzidine	ug/kg				<1900 U			
3,3'-Dimethylbenzidine	ug/kg				<1900 U			
3-Methylcholanthrene	ug/kg				<790 U			
3-Methylphenol	ug/kg				<400 U			
3-Nitroaniline	ug/kg				<1900 U			
4,6-Dinitro-2-methylphenol	ug/kg				<1900 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg				<1900 U			
4-Bromophenyl Phenyl Ether	ug/kg				<400 U			
4-Chloro-3-methylphenol	ug/kg				<400 U			
4-Chloroaniline	ug/kg				<400 U			
4-Chlorophenyl Phenyl Ether	ug/kg				<400 U			
4-Methylphenol (p-Cresol)	ug/kg				<400 UJ			
4-Nitroaniline	ug/kg				<1900 U			
4-Nitrophenol	ug/kg				<1900 U			
4-Nitroquinoline-n-oxide	ug/kg				<4000 UJ			
5-Nitro-o-toluidine	ug/kg				<790 U			
7,12-Dimethylbenz(a)anthracene	ug/kg				<790 U			
Acenaphthene	ug/kg				63 J			
Acenaphthylene	ug/kg				<400 U			
Acetophenone	ug/kg				<400 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998368	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg				<400 U			
Anthracene	ug/kg				<400 U			
Benzo(a)anthracene	ug/kg				<400 U			
Benzo(a)pyrene	ug/kg				75 J			
Benzo(b)fluoranthene	ug/kg				98 J			
Benzo(g,h,i)perylene	ug/kg				<400 U			
Benzo(k)fluoranthene	ug/kg				<400 U			
Benzoic Acid	ug/kg				<1900 UJ			
Benzyl Alcohol	ug/kg				<400 U			
Benzyl Butyl Phthalate	ug/kg				<400 U			
Bis(2-chloroethoxy) Methane	ug/kg				<400 U			
Carbazole	ug/kg				<400 U			
Chrysene	ug/kg				73 J			
Di-n-butyl Phthalate	ug/kg				<400 U			
Di-n-octylphthalate	ug/kg				<400 U			
Dibenz(a,h)anthracene	ug/kg				<400 U			
Dibenzofuran	ug/kg				<400 U			
Diethyl Phthalate	ug/kg				<400 U			
Dimethyl Phthalate	ug/kg				<400 U			
Diphenylamine	ug/kg				<400 U			
Ethyl Methanesulfonate	ug/kg				<400 U			
Fluoranthene	ug/kg				130 J			
Fluorene	ug/kg				<400 U			
Hexachlorobutadiene	ug/kg				<400 U			
Hexachloroethane	ug/kg				<400 U			
Hexachloropropene	ug/kg				<4000 U			
Indeno(1,2,3-c,d)pyrene	ug/kg				<400 U			
Isophorone	ug/kg				<400 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998369	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	AIG310192019	197-0277	197-0278	
Constituent	Units							
Isosafrole	ug/kg				<790 U			
Methapyrilene	ug/kg				<1900 U			
Methyl Methanesulfonate	ug/kg				<400 U			
Naphthalene	ug/kg				<400 U			
Nitrobenzene	ug/kg				<400 U			
Nitrosomethylalkylamine	ug/kg				<400 U			
Pentachlorophenol	ug/kg				<400 U			
Phenacetin	ug/kg				<790 U			
Phenanthrene	ug/kg				<400 U			
Phenol	ug/kg				<400 U			
Pronamide	ug/kg				<790 U			
Pyrene	ug/kg				130 J			
Pyridine	ug/kg				<790 U			
Safrole	ug/kg				<790 U			
alpha,alpha-Dimethylphenethylamine	ug/kg				<1900 U			
bis(2-chloroethyl) Ether (2-chloroethyl)	ug/kg				<400 U			
bis(2-ethylhexyl) Phthalate	ug/kg				<400 U			
n-Nitroso-di-n-butylamine	ug/kg				<400 U			
n-Nitrosodi-n-propylamine	ug/kg				<400 U			
n-Nitrosodiethylamine	ug/kg				<400 U			
n-Nitrosodimethylamine	ug/kg				<400 U			
n-Nitrosodiphenylamine	ug/kg				<400 U			
n-Nitrosomorpholine	ug/kg				<400 UJ			
n-Nitrosopiperidine	ug/kg				<400 U			
n-Nitrosopyrrolidine	ug/kg				<400 U			
o,o,o-Triethyl Phosphorothioate	ug/kg				<1900 U			
o-Toluidine	ug/kg				<790 U			
p-Dimethylaminoazobenzene	ug/kg				<790 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998369	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
p-Phenylenediamine	ug/kg				<4000 U			
trans-1,4-Dichloro-2-butene	ug/kg				<6.0 U			
1,1,1,2-Tetrachloroethane	ug/kg				<6.0 U			
1,1,1-Trichloroethane	ug/kg				<6.0 U			
1,1,1-Trichloroethane (screening)	ug/kg	<290	<270	<300	<270		<290	<260
1,1,2,2-Tetrachloroethane	ug/kg				<6.0 U			
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg				<6.0 U			
1,1,2-Trichloroethane	ug/kg				<6.0 U			
1,1-Dichloroethane	ug/kg				<6.0 U			
1,1-Dichloroethene	ug/kg				3.5 J			
1,2,3-Trichloropropane	ug/kg				<6.0 U			
1,2,4-Trichlorobenzene	ug/kg				<400 U			
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg				<6.0 U			
1,2-Dichlorobenzene	ug/kg				<400 U			
1,2-Dichloroethane	ug/kg				<6.0 U			
1,2-Dichloropropane	ug/kg				<6.0 U			
1,3-Dichlorobenzene	ug/kg				<400 U			
1,4-Dichlorobenzene	ug/kg				<400 U			
1,4-Dioxane (p-Dioxane)	ug/kg				<180 UR			
2-Chloro-1,3-butadiene	ug/kg				<6.0 U			
2-Hexanone	ug/kg				<60 U			
Acetone	ug/kg				4.3 J			
Acetonitrile	ug/kg				<120 UR			
Acrolein	ug/kg				<120 UJ			
Acrylonitrile	ug/kg				<13 U			
Allyl Chloride (3-Chloropropene)	ug/kg				<120 U			
Benzene	ug/kg				<6.0 U			
Benzene (screening)	ug/kg	<29	<27	<30	<13		<14	<13

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998368	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
Bromodichloromethane	ug/kg					<6.0 U		
Bromoform	ug/kg					<6.0 U		
Bromomethane	ug/kg					<12 U		
Carbon Disulfide	ug/kg					<6.0 U		
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg					<6.0 U		
Chlorobenzene	ug/kg					<6.0 U		
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg					<12 U		
Chloroform	ug/kg					<6.0 U		
Chloromethane	ug/kg					<12 U		
Dibromochloromethane	ug/kg					<6.0 U		
Dibromomethane	ug/kg					<6.0 U		
Dichlorodifluoromethane	ug/kg					<6.0 U		
Ethyl Methacrylate	ug/kg					<6.0 U		
Ethylbenzene	ug/kg					<6.0 U		
Ethylbenzene (screening)	ug/kg	<29	<27	<30	<27		<29	<26
Iodomethane (methyl Iodide)	ug/kg					<7.2 U		
Isobutanol	ug/kg					<170 UR		
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<43	<40	<45	<13		<14	<13
Methyl Ethyl Ketone (2-Butanone)	ug/kg					<120 U		
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg					<6.0 U		
Methyl Methacrylate	ug/kg					<6.0 U		
Methylacrylonitrile	ug/kg					<6.0 U		
Methylene Chloride	ug/kg					<6.0 UJ		
Pentachlorobenzene	ug/kg					<400 U		
Pentachloroethane	ug/kg					<1900 U		
Pentachloronitrobenzene	ug/kg					<1900 U		



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Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S
Sample ID	1998364	1998365	1998366	1998367	1998367	1998368	1998369	1998369
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001
Sample Time	13:30	14:11	14:12	14:25	14:25	14:30	15:24	
Sample Depth	2' - 4'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	16' - 18'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	35052-0486	35052-0487	35052-0488	197-0275	A1G310192019	197-0277	197-0278	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg				<9.6 U			
Styrene	ug/kg				<6.0 U			
Tetrachloroethylene (PCE)	ug/kg				<6.0 U			
Tetrachloroethylene (PCE) (screening)	ug/kg	<29	<27	<30	<13	<14	<13	
Toluene	ug/kg				<6.0 U			
Toluene (screening)	ug/kg	<29	<27	<30	<27	<29	<26	
Total 1,3-dichloropropene (cis and trans)	ug/kg				<6.0 U			
Trichloroethylene (TCE)	ug/kg				5.8 J			
Trichloroethylene (TCE) (screening)	ug/kg	<29	<27	<30	45	<29	<26	
Trichlorofluoromethane	ug/kg				<12 U			
Vinyl Acetate	ug/kg				<6.0 UJ			
Vinyl Chloride	ug/kg				<12 U			
Xylenes	ug/kg				<6.0 U			
cis-1,2-Dichloroethylene	ug/kg				1.0 J			
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<29	<27	<30	<27	<29	<26	
tert-Butyl Methyl Ether	ug/kg				<6.0 U			
trans-1,2-Dichloroethene	ug/kg				<6.0 U			
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	11:15	
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	0' - 2'	
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	197-0392	
Constituent	Units							
Date PCBs Analyzed	-			08/13/2001		08/13/2001		
Date Metals Analyzed	-			08/07/2001		08/07/2001		
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	07/31/2001	07/31/2001	08/10/2001	07/31/2001	08/11/2001	07/31/2001	08/07/2001
Date Physical Analyzed	-			08/07/2001		08/07/2001		
Date Semi-volatile Organics Analyzed	-			08/10/2001		08/10/2001		
Dinoseb	ug/kg			<1100 U		<930 U		
Arsenic	mg/kg			0.52 B		0.78 B		
Barium	mg/kg			28.8 B		19.7 B		
Beryllium	mg/kg			0.26 B		0.21 B		
Cadmium	mg/kg			0.16 B		0.087 B		
Chromium, Hexavalent	mg/kg			<1.7 U		<1.4 U		
Chromium, Total	mg/kg			5.2		4.9		
Copper	mg/kg			3.2 B		2.8 B		
Lead	mg/kg			2.3		1.7		
Lead (TCLP)	mg/L							
Mercury	mg/kg			<0.25 U		<0.21 U		
Nickel	mg/kg			2.7 B		3.4 B		
Selenium	mg/kg			0.64 B		0.55 B		
Silver	mg/kg			<1.7 U		<1.4 U		
Zinc	mg/kg			6.3		8.8		
PCB-1016 (Arochlor 1016)	ug/kg			<330 U		<280 U		
PCB-1221 (Arochlor 1221)	ug/kg			<330 U		<280 U		
PCB-1232 (Arochlor 1232)	ug/kg			<330 U		<280 U		
PCB-1242 (Arochlor 1242)	ug/kg			<330 U		<280 U		
PCB-1248 (Arochlor 1248)	ug/kg			<330 U		<280 U		
PCB-1254 (Arochlor 1254)	ug/kg			<330 U		<280 U		
PCB-1260 (Arochlor 1260)	ug/kg			<330 U		<280 U		



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SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	15:52	11:15
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	21.4' - 24'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	35052-0489	197-0392
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg		<10 UJ		<8.4 U			
2-Acetylaminofluorene	ug/kg		<5500 U		<4600 U			
Aramite (total)	ug/kg		<1100 U		<930 U			
Dimethoate	ug/kg		<1100 U		<930 U			
Disulfoton	ug/kg		<2700 U		<2200 U			
Famphur	ug/kg		<5500 UJ		<4600 UJ			
Hexachlorobenzene	ug/kg		<550 U		<460 U			
Hexachlorocyclopentadiene	ug/kg		<2700 U		<2200 U			
Phorate	ug/kg		<2700 U		<2200 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg		<2700 U		<2200 U			
Zinophos	ug/kg		<2700 U		<2200 U			
Cyanide (Total)	mg/kg		<0.83 U		<0.70 U			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		22 B		<70 U			
Total Solids	%		60.1		71.3			
1,2,4,5-Tetrachlorobenzene	ug/kg		<550 U		<460 U			
1,3,5-Trinitrobenzene	ug/kg		<2700 U		<2200 U			
1,3-Dinitrobenzene	ug/kg		<550 U		<460 U			
1,4-Naphthoquinone	ug/kg		<2700 U		<2200 U			
1-Naphthylamine	ug/kg		<550 UJ		<460 UJ			
2,2'-Oxybis(2-chloropropane)	ug/kg		<550 U		<460 U			
2,3,4,6-Tetrachlorophenol	ug/kg		<2700 U		<2200 U			
2,4,5-Trichlorophenol	ug/kg		<550 U		<460 U			
2,4,6-Trichlorophenol	ug/kg		<550 U		<460 U			
2,4-Dichlorophenol	ug/kg		<550 U		<460 U			
2,4-Dimethylphenol	ug/kg		<550 U		<460 U			
2,4-Dinitrophenol	ug/kg		<2700 U		<2200 U			
2,4-Dinitrotoluene	ug/kg		<550 U		<460 U			
2,6-Dinitrotoluene	ug/kg		<550 U		<460 U			

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Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	15:52	11:15
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	21.4' - 24'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	35052-0489	197-0392
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg		<550 UJ		<460 UJ			
2-Chloronaphthalene	ug/kg		<550 U		<460 U			
2-Chlorophenol	ug/kg		<550 U		<460 U			
2-Methylnaphthalene	ug/kg		<550 U		<460 U			
2-Methylphenol (o-Cresol)	ug/kg		<550 U		<460 U			
2-Nitroaniline	ug/kg		<2700 U		<2200 U			
2-Nitrophenol	ug/kg		<550 U		<460 U			
2-Picoline (alpha-Picoline)	ug/kg		<1100 U		<930 U			
3,3'-Dichlorobenzidine	ug/kg		<2700 U		<2200 U			
3,3'-Dimethylbenzidine	ug/kg		<2700 U		<2200 U			
3-Methylcholanthrene	ug/kg		<1100 U		<930 U			
3-Methylphenol	ug/kg		<550 U		<460 U			
3-Nitroaniline	ug/kg		<2700 U		<2200 U			
4,6-Dinitro-2-methylphenol	ug/kg		<2700 U		<2200 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg		<2700 U		<2200 U			
4-Bromophenyl Phenyl Ether	ug/kg		<550 U		<460 U			
4-Chloro-3-methylphenol	ug/kg		<550 U		<460 U			
4-Chloroaniline	ug/kg		<550 U		<460 U			
4-Chlorophenyl Phenyl Ether	ug/kg		<550 U		<460 U			
4-Methylphenol (p-Cresol)	ug/kg		<550 UJ		<460 UJ			
4-Nitroaniline	ug/kg		<2700 U		<2200 U			
4-Nitrophenol	ug/kg		<2700 U		<2200 U			
4-Nitroquinoline-n-oxide	ug/kg		<5500 UJ		<4600 UJ			
5-Nitro-o-toluidine	ug/kg		<1100 U		<930 U			
7,12-Dimethylbenz(a)anthracene	ug/kg		<1100 U		<930 U			
Acenaphthene	ug/kg		<550 U		<460 U			
Acenaphthylene	ug/kg		<550 U		<460 U			
Acetophenone	ug/kg		<550 U		<460 U			



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Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	15:52	11:15
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	21.4' - 24'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	35052-0489	197-0392
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg		<550 U		<460 U			
Anthracene	ug/kg		<550 U		<460 U			
Benz(a)anthracene	ug/kg		<550 U		<460 U			
Benzo(a)pyrene	ug/kg		<550 U		<460 U			
Benzo(b)fluoranthene	ug/kg		<550 U		<460 U			
Benzo(g,h,i)perylene	ug/kg		<550 U		<460 U			
Benzo(k)fluoranthene	ug/kg		<550 U		<460 U			
Benzoic Acid	ug/kg		<2700 UJ		<2200 UJ			
Benzyl Alcohol	ug/kg		<550 U		<460 U			
Benzyl Butyl Phthalate	ug/kg		<550 U		<460 U			
Bis(2-chloroethoxy) Methane	ug/kg		<550 U		<460 U			
Carbazole	ug/kg		<550 U		<460 U			
Chrysene	ug/kg		<550 U		<460 U			
Di-n-butyl Phthalate	ug/kg		<550 U		<460 U			
Di-n-octylphthalate	ug/kg		<550 U		<460 U			
Dibenz(a,h)anthracene	ug/kg		<550 U		<460 U			
Dibenzofuran	ug/kg		<550 U		<460 U			
Diethyl Phthalate	ug/kg		<550 U		<460 U			
Dimethyl Phthalate	ug/kg		<550 U		<460 U			
Diphenylamine	ug/kg		<550 U		<460 U			
Ethyl Methanesulfonate	ug/kg		<550 U		<460 U			
Fluoranthene	ug/kg		<550 U		<460 U			
Fluorene	ug/kg		<550 U		<460 U			
Hexachlorobutadiene	ug/kg		<550 U		<460 U			
Hexachloroethane	ug/kg		<550 U		<460 U			
Hexachloropropene	ug/kg		<5500 U		<4600 U			
Indeno(1,2,3-c,d)pyrene	ug/kg		<550 U		<460 U			
Isophorone	ug/kg		<550 U		<460 U			



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Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000099
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	11:15	
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	0' - 2'	
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	197-0392	
Constituent	Units							
Iisosafrole	ug/kg			<1100 U		<930 U		
Methapyrilene	ug/kg			<2700 U		<2200 U		
Methyl Methanesulfonate	ug/kg			<550 U		<460 U		
Naphthalene	ug/kg			<550 U		<460 U		
Nitrobenzene	ug/kg			<550 U		<460 U		
Nitrosomethylalkylamine	ug/kg			<550 U		<460 U		
Pentachlorophenol	ug/kg			<550 U		<460 U		
Phenacetin	ug/kg			<1100 U		<930 U		
Phenanthrene	ug/kg			<550 U		<460 U		
Phenol	ug/kg			<550 U		<460 U		
Pronamide	ug/kg			<1100 U		<930 U		
Pyrene	ug/kg			<550 U		<460 U		
Pyridine	ug/kg			<1100 U		<930 U		
Safrole	ug/kg			<1100 U		<930 U		
alpha,alpha-Dimethylphenethylamine	ug/kg			<2700 U		<2200 U		
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg			<550 U		<460 U		
bis(2-ethylhexyl) Phthalate	ug/kg			<550 U		<460 U		
n-Nitroso-di-n-butylamine	ug/kg			<550 U		<460 U		
n-Nitrosodi-n-propylamine	ug/kg			<550 U		<460 U		
n-Nitrosodiethylamine	ug/kg			<550 U		<460 U		
n-Nitrosodimethylamine	ug/kg			<550 U		<460 U		
n-Nitrosodiphenylamine	ug/kg			<550 U		<460 U		
n-Nitrosomorpholine	ug/kg			<550 UJ		<460 UJ		
n-Nitrosopiperidine	ug/kg			<550 U		<460 U		
n-Nitrosopyrrolidine	ug/kg			<550 U		<460 U		
o,o,o-Triethyl Phosphorothioate	ug/kg			<2700 U		<2200 U		
o-Toluidine	ug/kg			<1100 U		<930 U		
p-Dimethylaminoazobenzene	ug/kg			<1100 U		<930 U		

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	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	11:15	
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	0' - 2'	
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA	
Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	197-0392	
Constituent	Units							
p-Phenylenediamine	ug/kg			<5500 U		<4600 U		
trans-1,4-Dichloro-2-butene	ug/kg			<8.3 UJ		<7.0 U		
1,1,1,2-Tetrachloroethane	ug/kg			<8.3 U		<7.0 U		
1,1,1-Trichloroethane	ug/kg			<8.3 U		<7.0 U		
1,1,1-Trichloroethane (screening)	ug/kg	<280	<280		<260		<260	<300
1,1,2,2-Tetrachloroethane	ug/kg			<8.3 UJ		<7.0 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg			<8.3 U		<7.0 U		
1,1,2-Trichloroethane	ug/kg			<8.3 U		<7.0 U		
1,1-Dichloroethane	ug/kg			<8.3 U		<7.0 U		
1,1-Dichloroethene	ug/kg			<8.3 U		<7.0 U		
1,2,3-Trichloropropane	ug/kg			<8.3 UJ		<7.0 U		
1,2,4-Trichlorobenzene	ug/kg			<550 U		<460 U		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg			<8.3 U		<7.0 U		
1,2-Dichlorobenzene	ug/kg			<550 U		<460 U		
1,2-Dichloroethane	ug/kg			<8.3 U		<7.0 U		
1,2-Dichloropropane	ug/kg			<8.3 U		<7.0 U		
1,3-Dichlorobenzene	ug/kg			<550 U		<460 U		
1,4-Dichlorobenzene	ug/kg			<550 U		<460 U		
1,4-Dioxane (p-Dioxane)	ug/kg			<250 UR		<210 UR		
2-Chloro-1,3-butadiene	ug/kg			<8.3 U		<7.0 U		
2-Hexanone	ug/kg			<83 U		<70 U		
Acetone	ug/kg			140 J		69 J		
Acetonitrile	ug/kg			<170 UR		<140 UR		
Acrolein	ug/kg			<170 UJ		<140 UJ		
Acrylonitrile	ug/kg			<18 U		<15 U		
Allyl Chloride (3-Chloropropene)	ug/kg			<170 U		<140 U		
Benzene	ug/kg			<8.3 U		<7.0 U		
Benzene (screening)	ug/kg	<14	<14		<13		<26	<15

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
	Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	2000909
	Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
	Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	11:15
	Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	0' - 2'
	Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA
	Lab. Number	197-0279	197-0280	A1G310192023	197-0281	A1G310192024	35052-0489	197-0392
Constituent	Units							
Bromodichloromethane	ug/kg			<8.3 U		<7.0 U		
Bromoform	ug/kg			<8.3 U		<7.0 U		
Bromomethane	ug/kg			<17 U		<14 U		
Carbon Disulfide	ug/kg			<8.3 U		<7.0 U		
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg			<8.3 U		<7.0 U		
Chlorobenzene	ug/kg			<8.3 U		<7.0 U		
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg			<17 U		<14 U		
Chloroform	ug/kg			<8.3 U		<7.0 U		
Chloromethane	ug/kg			<17 U		<14 U		
Dibromochloromethane	ug/kg			<8.3 U		<7.0 U		
Dibromomethane	ug/kg			<8.3 U		<7.0 U		
Dichlorodifluoromethane	ug/kg			<8.3 U		<7.0 U		
Ethyl Methacrylate	ug/kg			<8.3 U		<7.0 U		
Ethylbenzene	ug/kg			<8.3 U		<7.0 U		
Ethylbenzene (screening)	ug/kg	<28	<28		<26		<26	<30
Iodomethane (methyl Iodide)	ug/kg			<10 U		<8.4 U		
Isobutanol	ug/kg			<230 UR		<200 UR		
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<14	<14		<13		<38	<15
Methyl Ethyl Ketone (2-Butanone)	ug/kg			43 J		21 J		
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg			<8.3 U		<7.0 U		
Methyl Methacrylate	ug/kg			<8.3 U		<7.0 U		
Methylacrylonitrile	ug/kg			<8.3 U		<7.0 U		
Methylene Chloride	ug/kg			<8.3 UJ		<7.0 UJ		
Pentachlorobenzene	ug/kg			<550 U		<460 U		
Pentachloroethane	ug/kg			<2700 U		<2200 U		
Pentachloronitrobenzene	ug/kg			<2700 U		<2200 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

Location ID	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-34S	WT-GW-35S
Sample ID	1998370	1998371	1998371	1998372	1998372	1998373	2000909
Sample Date	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	07/30/2001	08/06/2001
Sample Time	15:30	15:50	15:50	15:50	15:50	15:52	11:15
Sample Depth	18' - 20'	20' - 21.4'	20' - 21.4'	20' - 21.4'	20' - 21.4'	21.4' - 24'	0' - 2'
Laboratory	LEA	LEA	STLC	LEA	STLC	LEA	LEA
Lab. Number	197-0279	197-0280	AIG310192023	197-0281	AIG310192024	35052-0489	197-0392
Constituent	Units						
Propane Nitrile (propionitrile)	ug/kg		<13 UR		<11 UR		
Styrene	ug/kg		<8.3 U		<7.0 U		
Tetrachloroethylene (PCE)	ug/kg		<8.3 U		<7.0 U		
Tetrachloroethylene (PCE) (screening)	ug/kg	<14	<14	<13		<26	<15
Toluene	ug/kg		<8.3 U		<7.0 U		
Toluene (screening)	ug/kg	<28	<28	<26		<26	<30
Total 1,3-dichloropropene (cis and trans)	ug/kg		<8.3 U		<7.0 U		
Trichloroethylene (TCE)	ug/kg		<8.3 U		<7.0 U		
Trichloroethylene (TCE) (screening)	ug/kg	<28	<28	<26		<26	33
Trichlorofluoromethane	ug/kg		<17 U		<14 U		
Vinyl Acetate	ug/kg		<8.3 UJ		<7.0 UJ		
Vinyl Chloride	ug/kg		<17 U		<14 U		
Xylenes	ug/kg		<8.3 U		<7.0 U		
cis-1,2-Dichloroethylene	ug/kg		<8.3 U		<7.0 U		
cis-1,2-Dichloroethylene (screening)	ug/kg						
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<28	<28	<26		<26	<30
tert-Butyl Methyl Ether	ug/kg		<8.3 U		<7.0 U		
trans-1,2-Dichloroethene	ug/kg		<8.3 U		<7.0 U		
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000915	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	12' - 14'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
Date PCBs Analyzed	-						08/28/2001	
Date Metals Analyzed	-						08/15/2001	
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/07/2001	08/07/2001	08/07/2001	08/07/2001	08/07/2001	08/15/2001	08/07/2001
Date Physical Analyzed	-						08/15/2001	
Date Semi-volatile Organics Analyzed	-						08/16/2001	
Dinoseb	ug/kg						<830	
Arsenic	mg/kg						0.95	
Barium	mg/kg						14.5	
Beryllium	mg/kg						<0.63	
Cadmium	mg/kg						<0.63	
Chromium, Hexavalent	mg/kg						<1.3	
Chromium, Total	mg/kg						6.1	
Copper	mg/kg						5.2	
Lead	mg/kg						10.9	
Lead (TCLP)	mg/L							
Mercury	mg/kg						<0.19	
Nickel	mg/kg						5.7	
Selenium	mg/kg						0.66	
Silver	mg/kg						<1.3	
Zinc	mg/kg						17.9	
PCB-1016 (Arochlor 1016)	ug/kg						<250	
PCB-1221 (Arochlor 1221)	ug/kg						<250	
PCB-1232 (Arochlor 1232)	ug/kg						<250	
PCB-1242 (Arochlor 1242)	ug/kg						<250	
PCB-1248 (Arochlor 1248)	ug/kg						<250	
PCB-1254 (Arochlor 1254)	ug/kg						<250	
PCB-1260 (Arochlor 1260)	ug/kg						<250	



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000915	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:35	
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg					<7.5		
2-Acetylaminofluorene	ug/kg					<4100		
Aramite (total)	ug/kg					<830		
Dimethoate	ug/kg					<830		
Disulfoton	ug/kg					<2000		
Famphur	ug/kg					<4100		
Hexachlorobenzene	ug/kg					<410		
Hexachlorocyclopentadiene	ug/kg					<2000		
Phorate	ug/kg					<2000		
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg					<2000		
Zinophos	ug/kg					<2000		
Cyanide (Total)	mg/kg					<0.63		
Total Petroleum Hydrocarbons EPA 418.1	mg/kg					<63		
Total Solids	%					79.8		
1,2,4,5-Tetrachlorobenzene	ug/kg					<410		
1,3,5-Trinitrobenzene	ug/kg					<2000		
1,3-Dinitrobenzene	ug/kg					<410		
1,4-Naphthoquinone	ug/kg					<2000		
1-Naphthylamine	ug/kg					<410		
2,2'-Oxybis(2-chloropropane)	ug/kg					<410		
2,3,4,6-Tetrachlorophenol	ug/kg					<2000		
2,4,5-Trichlorophenol	ug/kg					<410		
2,4,6-Trichlorophenol	ug/kg					<410		
2,4-Dichlorophenol	ug/kg					<410		
2,4-Dimethylphenol	ug/kg					<410		
2,4-Dinitrophenol	ug/kg					<2000		
2,4-Dinitrotoluene	ug/kg					<410		
2,6-Dinitrotoluene	ug/kg					<410		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000914	2000915
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg					<410		
2-Chloronaphthalene	ug/kg					<410		
2-Chlorophenol	ug/kg					<410		
2-Methylnaphthalene	ug/kg					<410		
2-Methylphenol (o-Cresol)	ug/kg					<410		
2-Nitroaniline	ug/kg					<2000		
2-Nitrophenol	ug/kg					<410		
2-Picoline (alpha-Picoline)	ug/kg					<830		
3,3'-Dichlorobenzidine	ug/kg					<2000		
3,3'-Dimethylbenzidine	ug/kg					<2000		
3-Methylcholanthrene	ug/kg					<830		
3-Methylphenol	ug/kg					<410		
3-Nitroaniline	ug/kg					<2000		
4,6-Dinitro-2-methylphenol	ug/kg					<2000		
4-Aminobiphenyl (4-biphenylamine)	ug/kg					<2000		
4-Bromophenyl Phenyl Ether	ug/kg					<410		
4-Chloro-3-methylphenol	ug/kg					<410		
4-Chloroaniline	ug/kg					<410		
4-Chlorophenyl Phenyl Ether	ug/kg					<410		
4-Methylphenol (p-Cresol)	ug/kg					<410		
4-Nitroaniline	ug/kg					<2000		
4-Nitrophenol	ug/kg					<2000		
4-Nitroquinoline-n-oxide	ug/kg					<4100		
5-Nitro-o-toluidine	ug/kg					<830		
7,12-Dimethylbenz(a)anthracene	ug/kg					<830		
Acenaphthene	ug/kg					<410		
Acenaphthylene	ug/kg					<410		
Acetophenone	ug/kg					<410		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
	Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000915
	Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
	Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:35
	Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'
	Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA
	Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg						<410	
Anthracene	ug/kg						<410	
Benzo(a)anthracene	ug/kg						<410	
Benzo(a)pyrene	ug/kg						<410	
Benzo(b)fluoranthene	ug/kg						<410	
Benzo(g,h,i)perylene	ug/kg						<410	
Benzo(k)fluoranthene	ug/kg						<410	
Benzoic Acid	ug/kg						<2000	
Benzyl Alcohol	ug/kg						<410	
Benzyl Butyl Phthalate	ug/kg						<410	
Bis(2-chloroethoxy) Methane	ug/kg						<410	
Carbazole	ug/kg						<410	
Chrysene	ug/kg						<410	
Di-n-butyl Phthalate	ug/kg						<410	
Di-n-octylphthalate	ug/kg						<410	
Dibenz(a,h)anthracene	ug/kg						<410	
Dibenzofuran	ug/kg						<410	
Diethyl Phthalate	ug/kg						<410	
Dimethyl Phthalate	ug/kg						<410	
Diphenylamine	ug/kg						<410	
Ethyl Methanesulfonate	ug/kg						<410	
Fluoranthene	ug/kg						<410	
Fluorene	ug/kg						<410	
Hexachlorobutadiene	ug/kg						<410	
Hexachloroethane	ug/kg						<410	
Hexachloropropene	ug/kg						<4100	
Indeno(1,2,3-c,d)pyrene	ug/kg						<410	
Isophorone	ug/kg						<410	



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000915	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
Isosafrole	ug/kg					<830		
Methapyrilene	ug/kg					<2000		
Methyl Methanesulfonate	ug/kg					<410		
Naphthalene	ug/kg					<410		
Nitrobenzene	ug/kg					<410		
Nitrosomethylamine	ug/kg					<410		
Pentachlorophenol	ug/kg					<410		
Phenacetin	ug/kg					<830		
Phenanthrene	ug/kg					<410		
Phenol	ug/kg					<410		
Pronamide	ug/kg					<830		
Pyrene	ug/kg					<410		
Pyridine	ug/kg					<830		
Safrole	ug/kg					<830		
alpha,alpha-Dimethylphenethylamine	ug/kg					<2000		
bis(2-chloroethyl) Ether (2-chloroethyl)	ug/kg					<410		
bis(2-ethylhexyl) Phthalate	ug/kg					<410		
n-Nitroso-di-n-butylamine	ug/kg					<410		
n-Nitrosodi-n-propylamine	ug/kg					<410		
n-Nitrosodiethylamine	ug/kg					<410		
n-Nitrosodimethylamine	ug/kg					<410		
n-Nitrosodiphenylamine	ug/kg					<410		
n-Nitrosomorpholine	ug/kg					<410		
n-Nitrosopiperidine	ug/kg					<410		
n-Nitrosopyrrolidine	ug/kg					<410		
o,o,o-Triethyl Phosphorothioate	ug/kg					<2000		
o-Toluidine	ug/kg					<830		
p-Dimethylaminoazobenzene	ug/kg					<830		



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000914	2000915
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
p-Phenylenediamine	ug/kg					<4100		
trans-1,4-Dichloro-2-butene	ug/kg					<6.3		
1,1,1,2-Tetrachloroethane	ug/kg					<6.3		
1,1,1-Trichloroethane	ug/kg					11		
1,1,1-Trichloroethane (screening)	ug/kg	<300	<300	<300	<300	<300		<290
1,1,2,2-Tetrachloroethane	ug/kg					<6.3		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg					<6.3		
1,1,2-Trichloroethane	ug/kg					<6.3		
1,1-Dichloroethane	ug/kg					<6.3		
1,1-Dichloroethene	ug/kg					5.9		
1,2,3-Trichloropropane	ug/kg					<6.3		
1,2,4-Trichlorobenzene	ug/kg					<410		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg					<6.3		
1,2-Dichlorobenzene	ug/kg					<410		
1,2-Dichloroethane	ug/kg					<6.3		
1,2-Dichloropropane	ug/kg					<6.3		
1,3-Dichlorobenzene	ug/kg					<410		
1,4-Dichlorobenzene	ug/kg					<410		
1,4-Dioxane (p-Dioxane)	ug/kg					<190		
2-Chloro-1,3-butadiene	ug/kg					<6.3		
2-Hexanone	ug/kg					<63		
Acetone	ug/kg					<130		
Acetonitrile	ug/kg					<130		
Acrolein	ug/kg					<130		
Acrylonitrile	ug/kg					<25		
Allyl Chloride (3-Chloropropene)	ug/kg					<130		
Benzene	ug/kg					<6.3		
Benzene (screening)	ug/kg	<15	<15	<15	<15	<15		<15

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000914	2000915
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
Bromodichloromethane	ug/kg					<6.3		
Bromoform	ug/kg					<6.3		
Bromomethane	ug/kg					<13		
Carbon Disulfide	ug/kg					<6.3		
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg					<6.3		
Chlorobenzene	ug/kg					<6.3		
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg					<13		
Chloroform	ug/kg					<6.3		
Chloromethane	ug/kg					<13		
Dibromochloromethane	ug/kg					<6.3		
Dibromomethane	ug/kg					<6.3		
Dichlorodifluoromethane	ug/kg					<6.3		
Ethyl Methacrylate	ug/kg					<6.3		
Ethylbenzene	ug/kg					<6.3		
Ethylbenzene (screening)	ug/kg	<30	<30	<30	<30	<30		<29
Iodomethane (methyl Iodide)	ug/kg							<7.5
Isobutanol	ug/kg							<180
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<15	<15	<15	<15	<15		<15
Methyl Ethyl Ketone (2-Butanone)	ug/kg							<130
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg							<6.3
Methyl Methacrylate	ug/kg							<6.3
Methylacrylonitrile	ug/kg							<6.3
Methylene Chloride	ug/kg							<6.3
Pentachlorobenzene	ug/kg							<410
Pentachloroethane	ug/kg							<2000
Pentachloronitrobenzene	ug/kg							<2000

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S
Sample ID	2000910	2000911	2000912	2000913	2000914	2000914	2000914	2000915
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001	08/06/2001
Sample Time	12:50	13:00	13:06	13:25	13:30	13:30	13:30	13:35
Sample Depth	2' - 4'	4' - 6'	6' - 8'	8' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	197-0394	197-0395	197-0396	197-0397	197-0398	A1H080137020	197-0399	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg						<10	
Styrene	ug/kg						<6.3	
Tetrachloroethylene (PCE)	ug/kg						8.9	
Tetrachloroethylene (PCE) (screening)	ug/kg	<15	<15	<15	<15	<15		23
Toluene	ug/kg						<6.3	
Toluene (screening)	ug/kg	<30	<30	<30	<30	<30		<29
Total 1,3-dichloropropene (cis and trans)	ug/kg						<6.3	
Trichloroethylene (TCE)	ug/kg						59	
Trichloroethylene (TCE) (screening)	ug/kg	36	<30	<30	<30	140		290 E
Trichlorofluoromethane	ug/kg						<13	
Vinyl Acetate	ug/kg						<6.3	
Vinyl Chloride	ug/kg						<13	
Xylenes	ug/kg						<6.3	
cis-1,2-Dichloroethylene	ug/kg						<6.3	
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<30	<30	<30	<30	<30		<29
tert-Butyl Methyl Ether	ug/kg						<6.3	
trans-1,2-Dichloroethene	ug/kg						<6.3	
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	1998376
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	11:10
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	LEA
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
Date PCBs Analyzed	-		08/28/2001					
Date Metals Analyzed	-		08/15/2001					
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/07/2001	08/16/2001	08/07/2001	08/07/2001	08/01/2001	08/01/2001	08/01/2001
Date Physical Analyzed	-		08/15/2001					
Date Semi-volatile Organics Analyzed	-		08/16/2001					
Dinoseb	ug/kg		<930					
Arsenic	mg/kg		0.62					
Barium	mg/kg		24.2					
Beryllium	mg/kg		<0.70					
Cadmium	mg/kg		<0.70					
Chromium, Hexavalent	mg/kg		<1.4					
Chromium, Total	mg/kg		6.7					
Copper	mg/kg		2.4					
Lead	mg/kg		2.9					
Lead (TCLP)	mg/L							
Mercury	mg/kg		<0.21					
Nickel	mg/kg		6.3					
Selenium	mg/kg		<0.70					
Silver	mg/kg		<1.4					
Zinc	mg/kg		11.0					
PCB-1016 (Arochlor 1016)	ug/kg		<280					
PCB-1221 (Arochlor 1221)	ug/kg		<280					
PCB-1232 (Arochlor 1232)	ug/kg		<280					
PCB-1242 (Arochlor 1242)	ug/kg		<280					
PCB-1248 (Arochlor 1248)	ug/kg		<280					
PCB-1254 (Arochlor 1254)	ug/kg		<280					
PCB-1260 (Arochlor 1260)	ug/kg		<280					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	1998376
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	11:10
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	LEA
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg	<8.4						
2-Acetylaminofluorene	ug/kg	<4600						
Aramite (total)	ug/kg	<930						
Dimethoate	ug/kg	<930						
Disulfoton	ug/kg	<2200						
Famphur	ug/kg	<4600						
Hexachlorobenzene	ug/kg	<460						
Hexachlorocyclopentadiene	ug/kg	<2200						
Phorate	ug/kg	<2200						
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg	<2200						
Zinophos	ug/kg	<2200						
Cyanide (Total)	mg/kg	<0.70						
Total Petroleum Hydrocarbons EPA 418.1	mg/kg	<70						
Total Solids	%	71.3						
1,2,4,5-Tetrachlorobenzene	ug/kg	<460						
1,3,5-Trinitrobenzene	ug/kg	<2200						
1,3-Dinitrobenzene	ug/kg	<460						
1,4-Naphthoquinone	ug/kg	<2200						
1-Naphthylamine	ug/kg	<460						
2,2'-Oxybis(2-chloropropane)	ug/kg	<460						
2,3,4,6-Tetrachlorophenol	ug/kg	<2200						
2,4,5-Trichlorophenol	ug/kg	<460						
2,4,6-Trichlorophenol	ug/kg	<460						
2,4-Dichlorophenol	ug/kg	<460						
2,4-Dimethylphenol	ug/kg	<460						
2,4-Dinitrophenol	ug/kg	<2200						
2,4-Dinitrotoluene	ug/kg	<460						
2,6-Dinitrotoluene	ug/kg	<460						

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
	Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376
	Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001
	Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10
	Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA
	Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg		<460					
2-Chloronaphthalene	ug/kg		<460					
2-Chlorophenol	ug/kg		<460					
2-Methylnaphthalene	ug/kg		<460					
2-Methylphenol (o-Cresol)	ug/kg		<460					
2-Nitroaniline	ug/kg		<2200					
2-Nitrophenol	ug/kg		<460					
2-Picoline (alpha-Picoline)	ug/kg		<930					
3,3'-Dichlorobenzidine	ug/kg		<2200					
3,3'-Dimethylbenzidine	ug/kg		<2200					
3-Methylcholanthrene	ug/kg		<930					
3-Methylphenol	ug/kg		<460					
3-Nitroaniline	ug/kg		<2200					
4,6-Dinitro-2-methylphenol	ug/kg		<2200					
4-Aminobiphenyl (4-biphenylamine)	ug/kg		<2200					
4-Bromophenyl Phenyl Ether	ug/kg		<460					
4-Chloro-3-methylphenol	ug/kg		<460					
4-Chloroaniline	ug/kg		<460					
4-Chlorophenyl Phenyl Ether	ug/kg		<460					
4-Methylphenol (p-Cresol)	ug/kg		<460					
4-Nitroaniline	ug/kg		<2200					
4-Nitrophenol	ug/kg		<2200					
4-Nitroquinoline-n-oxide	ug/kg		<4600					
5-Nitro-o-toluidine	ug/kg		<930					
7,12-Dimethylbenz(a)anthracene	ug/kg		<930					
Acenaphthene	ug/kg		<460					
Acenaphthylene	ug/kg		<460					
Acetophenone	ug/kg		<460					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	1998376
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg		<460					
Anthracene	ug/kg		<460					
Benzo(a)anthracene	ug/kg		<460					
Benzo(a)pyrene	ug/kg		<460					
Benzo(b)fluoranthene	ug/kg		<460					
Benzo(g,h,i)perylene	ug/kg		<460					
Benzo(k)fluoranthene	ug/kg		<460					
Benzoic Acid	ug/kg		<2200					
Benzyl Alcohol	ug/kg		<460					
Benzyl Butyl Phthalate	ug/kg		<460					
Bis(2-chloroethoxy) Methane	ug/kg		<460					
Carbazole	ug/kg		<460					
Chrysene	ug/kg		<460					
Di-n-butyl Phthalate	ug/kg		<460					
Di-n-octylphthalate	ug/kg		<460					
Dibenz(a,h)anthracene	ug/kg		<460					
Dibenzofuran	ug/kg		<460					
Diethyl Phthalate	ug/kg		<460					
Dimethyl Phthalate	ug/kg		<460					
Diphenylamine	ug/kg		<460					
Ethyl Methanesulfonate	ug/kg		<460					
Fluoranthene	ug/kg		<460					
Fluorene	ug/kg		<460					
Hexachlorobutadiene	ug/kg		<460					
Hexachloroethane	ug/kg		<460					
Hexachloropropene	ug/kg		<4600					
Indeno(1,2,3-c,d)pyrene	ug/kg		<460					
Isophorone	ug/kg		<460					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
Iisosafrole	ug/kg		<930					
Methapyrilene	ug/kg		<2200					
Methyl Methanesulfonate	ug/kg		<460					
Naphthalene	ug/kg		<460					
Nitrobenzene	ug/kg		<460					
Nitrosomethylethylamine	ug/kg		<460					
Pentachlorophenol	ug/kg		<460					
Phenacetin	ug/kg		<930					
Phenanthrene	ug/kg		<460					
Phenol	ug/kg		<460					
Pronamide	ug/kg		<930					
Pyrene	ug/kg		<460					
Pyridine	ug/kg		<930					
Safrole	ug/kg		<930					
alpha,alpha-Dimethylphenethylamine	ug/kg		<2200					
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg		<460					
bis(2-ethylhexyl) Phthalate	ug/kg		<460					
n-Nitroso-di-n-butylamine	ug/kg		<460					
n-Nitrosodi-n-propylamine	ug/kg		<460					
n-Nitrosodiethylamine	ug/kg		<460					
n-Nitrosodimethylamine	ug/kg		<460					
n-Nitrosodiphenylamine	ug/kg		<460					
n-Nitrosomorpholine	ug/kg		<460					
n-Nitrosopiperidine	ug/kg		<460					
n-Nitrosopyrrolidine	ug/kg		<460					
o,o,o-Triethyl Phosphorothioate	ug/kg		<2200					
o-Toluidine	ug/kg		<930					
p-Dimethylaminoazobenzene	ug/kg		<930					



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
p-Phenylenediamine	ug/kg		<4600					
trans-1,4-Dichloro-2-butene	ug/kg		<7.0					
1,1,1,2-Tetrachloroethane	ug/kg		<7.0					
1,1,1-Trichloroethane	ug/kg		8.6					
1,1,1-Trichloroethane (screening)	ug/kg	<290		<290	<290	<270	<320	<310
1,1,2,2-Tetrachloroethane	ug/kg		<7.0					
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg		<7.0					
1,1,2-Trichloroethane	ug/kg		<7.0					
1,1-Dichloroethane	ug/kg		<7.0					
1,1-Dichloroethene	ug/kg		6.8					
1,2,3-Trichloropropane	ug/kg		<7.0					
1,2,4-Trichlorobenzene	ug/kg		<460					
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg		<7.0					
1,2-Dichlorobenzene	ug/kg		<460					
1,2-Dichloroethane	ug/kg		<7.0					
1,2-Dichloropropane	ug/kg		<7.0					
1,3-Dichlorobenzene	ug/kg		<460					
1,4-Dichlorobenzene	ug/kg		<460					
1,4-Dioxane (p-Dioxane)	ug/kg		<210					
2-Chloro-1,3-butadiene	ug/kg		<7.0					
2-Hexanone	ug/kg		<70					
Acetone	ug/kg		16					
Acetonitrile	ug/kg		<140					
Acrolein	ug/kg		<140					
Acrylonitrile	ug/kg		<28					
Allyl Chloride (3-Chloropropene)	ug/kg		<140					
Benzene	ug/kg		<7.0					
Benzene (screening)	ug/kg	<15		<15	<15	<13	<16	<15

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
Bromodichloromethane	ug/kg		<7.0					
Bromoform	ug/kg		<7.0					
Bromomethane	ug/kg		<14					
Carbon Disulfide	ug/kg		<7.0					
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg		<7.0					
Chlorobenzene	ug/kg		<7.0					
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg		<14					
Chloroform	ug/kg		<7.0					
Chloromethane	ug/kg		<14					
Dibromochloromethane	ug/kg		<7.0					
Dibromomethane	ug/kg		<7.0					
Dichlorodifluoromethane	ug/kg		<7.0					
Ethyl Methacrylate	ug/kg		<7.0					
Ethylbenzene	ug/kg		<7.0					
Ethylbenzene (screening)	ug/kg	<29		<29	<29	<27	<32	<31
Iodomethane (methyl Iodide)	ug/kg		<8.4					
Isobutanol	ug/kg		<200					
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<15		<15	<15	<13	<16	<15
Methyl Ethyl Ketone (2-Butanone)	ug/kg		6.1					
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg		<7.0					
Methyl Methacrylate	ug/kg		<7.0					
Methylacrylonitrile	ug/kg		<7.0					
Methylene Chloride	ug/kg		<7.0					
Pentachlorobenzene	ug/kg		<460					
Pentachloroethane	ug/kg		<2200					
Pentachloronitrobenzene	ug/kg		<2200					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-35S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	2000916	2000916	2000917	2000917	1998374	1998375	1998376	1998376
Sample Date	08/06/2001	08/06/2001	08/06/2001	08/06/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:45	13:48	13:48	10:40	11:05	11:10	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0400	A1H080137022	197-0401	197-0402	197-0289	197-0290	197-0291	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg		<11					
Styrene	ug/kg		<7.0					
Tetrachloroethylene (PCE)	ug/kg		9.5					
Tetrachloroethylene (PCE) (screening)	ug/kg	<15		<15	<15	<13	<16	<15
Toluene	ug/kg		<7.0					
Toluene (screening)	ug/kg	<29		<29	<29	<27	<32	<31
Total 1,3-dichloropropene (cis and trans)	ug/kg		<7.0					
Trichloroethylene (TCE)	ug/kg		140					
Trichloroethylene (TCE) (screening)	ug/kg	110		<29	<29	<27	<32	<31
Trichlorofluoromethane	ug/kg		<14					
Vinyl Acetate	ug/kg		<7.0					
Vinyl Chloride	ug/kg		<14					
Xylenes	ug/kg		<7.0					
cis-1,2-Dichloroethylene	ug/kg		<7.0					
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<29		<29	<29	<27	<32	<31
tert-Butyl Methyl Ether	ug/kg		<7.0					
trans-1,2-Dichloroethene	ug/kg		<7.0					
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	1998381
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	11:46
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
Date PCBs Analyzed	-					08/13/2001		
Date Metals Analyzed	-					08/07/2001		
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/10/2001	08/01/2001	08/01/2001
Date Physical Analyzed	-					08/07/2001		
Date Semi-volatile Organics Analyzed	-					08/10/2001		
Dinoseb	ug/kg					<760 U		
Arsenic	mg/kg					2.1		
Barium	mg/kg					25.1		
Beryllium	mg/kg					0.25 B		
Cadmium	mg/kg					0.19 B		
Chromium, Hexavalent	mg/kg					<1.1 U		
Chromium, Total	mg/kg					6.7		
Copper	mg/kg					28.0		
Lead	mg/kg					33.8		
Lead (TCLP)	mg/L							
Mercury	mg/kg					0.060 B		
Nickel	mg/kg					6.1		
Selenium	mg/kg					<0.57 U		
Silver	mg/kg					<1.1 U		
Zinc	mg/kg					32.6		
PCB-1016 (Arochlor 1016)	ug/kg					<230 U		
PCB-1221 (Arochlor 1221)	ug/kg					<230 U		
PCB-1232 (Arochlor 1232)	ug/kg					<230 U		
PCB-1242 (Arochlor 1242)	ug/kg					<230 U		
PCB-1248 (Arochlor 1248)	ug/kg					<230 U		
PCB-1254 (Arochlor 1254)	ug/kg					<230 U		
PCB-1260 (Arochlor 1260)	ug/kg					<230 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	1998381
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	11:46
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg				<6.9 U			
2-Acetylaminofluorene	ug/kg				<3800 U			
Aramite (total)	ug/kg				<760 U			
Dimethoate	ug/kg				<760 U			
Disulfoton	ug/kg				<1800 U			
Famphur	ug/kg				<3800 UJ			
Hexachlorobenzene	ug/kg				<380 U			
Hexachlorocyclopentadiene	ug/kg				<1800 U			
Phorate	ug/kg				<1800 U			
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg				<1800 U			
Zinophos	ug/kg				<1800 U			
Cyanide (Total)	mg/kg				<0.57 U			
Total Petroleum Hydrocarbons EPA 418.1	mg/kg				190			
Total Solids	%				87.2			
1,2,4,5-Tetrachlorobenzene	ug/kg				<380 U			
1,3,5-Trinitrobenzene	ug/kg				<1800 U			
1,3-Dinitrobenzene	ug/kg				<380 U			
1,4-Naphthoquinone	ug/kg				<1800 U			
1-Naphthylamine	ug/kg				<380 UJ			
2,2'-Oxybis(2-chloropropane)	ug/kg				<380 U			
2,3,4,6-Tetrachlorophenol	ug/kg				<1800 U			
2,4,5-Trichlorophenol	ug/kg				<380 U			
2,4,6-Trichlorophenol	ug/kg				<380 U			
2,4-Dichlorophenol	ug/kg				<380 U			
2,4-Dimethylphenol	ug/kg				<380 U			
2,4-Dinitrophenol	ug/kg				<1800 U			
2,4-Dinitrotoluene	ug/kg				<380 U			
2,6-Dinitrotoluene	ug/kg				<380 U			

LEA

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	1998381
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	11:46
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg				<380 UJ			
2-Chloronaphthalene	ug/kg				<380 U			
2-Chlorophenol	ug/kg				<380 U			
2-Methylnaphthalene	ug/kg				<380 U			
2-Methylphenol (o-Cresol)	ug/kg				<380 U			
2-Nitroaniline	ug/kg				<1800 U			
2-Nitrophenol	ug/kg				<380 U			
2-Picoline (alpha-Picoline)	ug/kg				<760 U			
3,3'-Dichlorobenzidine	ug/kg				<1800 U			
3,3'-Dimethylbenzidine	ug/kg				<1800 U			
3-Methylcholanthrene	ug/kg				<760 U			
3-Methylphenol	ug/kg				<380 UJ			
3-Nitroaniline	ug/kg				<1800 U			
4,6-Dinitro-2-methylphenol	ug/kg				<1800 U			
4-Aminobiphenyl (4-biphenylamine)	ug/kg				<1800 U			
4-Bromophenyl Phenyl Ether	ug/kg				<380 U			
4-Chloro-3-methylphenol	ug/kg				<380 U			
4-Chloroaniline	ug/kg				<380 U			
4-Chlorophenyl Phenyl Ether	ug/kg				<380 U			
4-Methylphenol (p-Cresol)	ug/kg				<380 U			
4-Nitroaniline	ug/kg				<1800 U			
4-Nitrophenol	ug/kg				<1800 U			
4-Nitroquinoline-n-oxide	ug/kg				<3800 UJ			
5-Nitro-o-toluidine	ug/kg				<760 U			
7,12-Dimethylbenz(a)anthracene	ug/kg				<760 U			
Acenaphthene	ug/kg				61 J			
Acenaphthylene	ug/kg				270 J			
Acetophenone	ug/kg				<380 U			



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	1998381
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	11:46
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg				<380 U			
Anthracene	ug/kg				120 J			
Benzo(a)anthracene	ug/kg				1100			
Benzo(a)pyrene	ug/kg				1400			
Benzo(b)fluoranthene	ug/kg				1700			
Benzo(g,h,i)perylene	ug/kg				890			
Benzo(k)fluoranthene	ug/kg				990			
Benzoic Acid	ug/kg				<1800 UJ			
Benzyl Alcohol	ug/kg				<380 U			
Benzyl Butyl Phthalate	ug/kg				<380 U			
Bis(2-chloroethoxy) Methane	ug/kg				<380 U			
Carbazole	ug/kg				<380 U			
Chrysene	ug/kg				1200			
Di-n-butyl Phthalate	ug/kg				<380 U			
Di-n-octylphthalate	ug/kg				<380 U			
Dibenz(a,h)anthracene	ug/kg				280 J			
Dibenzofuran	ug/kg				<380 U			
Diethyl Phthalate	ug/kg				<380 U			
Dimethyl Phthalate	ug/kg				<380 U			
Diphenylamine	ug/kg				<380 U			
Ethyl Methanesulfonate	ug/kg				<380 U			
Fluoranthene	ug/kg				2000			
Fluorene	ug/kg				130 J			
Hexachlorobutadiene	ug/kg				<380 U			
Hexachloroethane	ug/kg				<380 U			
Hexachloropropene	ug/kg				<3800 U			
Indeno(1,2,3-c,d)pyrene	ug/kg				820			
Isophorone	ug/kg				<380 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
Isosafrole	ug/kg				<760 U			
Methapyrilene	ug/kg				<1800 U			
Methyl Methanesulfonate	ug/kg				<380 U			
Naphthalene	ug/kg				<380 U			
Nitrobenzene	ug/kg				<380 U			
Nitrosomethylethylamine	ug/kg				<380 U			
Pentachlorophenol	ug/kg				<380 U			
Phenacetin	ug/kg				<760 U			
Phenanthrene	ug/kg				290 J			
Phenol	ug/kg				<380 U			
Pronamide	ug/kg				<760 U			
Pyrene	ug/kg				2100			
Pyridine	ug/kg				<760 U			
Safrole	ug/kg				<760 U			
alpha,alpha-Dimethylphenethylamine	ug/kg				<1800 U			
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg				<380 U			
bis(2-ethylhexyl) Phthalate	ug/kg				<380 U			
n-Nitroso-di-n-butylamine	ug/kg				<380 U			
n-Nitrosodi-n-propylamine	ug/kg				<380 U			
n-Nitrosodiethylamine	ug/kg				<380 U			
n-Nitrosodimethylamine	ug/kg				<380 U			
n-Nitrosodiphenylamine	ug/kg				<380 U			
n-Nitrosomorpholine	ug/kg				<380 UJ			
n-Nitrosopiperidine	ug/kg				<380 U			
n-Nitrosopyrrolidine	ug/kg				<380 U			
o,o,o-Triethyl Phosphorothioate	ug/kg				<1800 U			
o-Toluidine	ug/kg				<760 U			
p-Dimethylaminoazobenzene	ug/kg				<760 U			

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
	Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381
	Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
	Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46
	Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'
	Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA
	Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297
Constituent	Units							
p-Phenylenediamine	ug/kg					<3800 U		
trans-1,4-Dichloro-2-butene	ug/kg					<5.7 U		
1,1,1,2-Tetrachloroethane	ug/kg					<5.7 U		
1,1,1-Trichloroethane	ug/kg					<5.7 U		
1,1,1-Trichloroethane (screening)	ug/kg	<320	<300	<300	<280		<250	<250
1,1,2,2-Tetrachloroethane	ug/kg					<5.7 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg					<5.7 U		
1,1,2-Trichloroethane	ug/kg					<5.7 U		
1,1-Dichloroethane	ug/kg					<5.7 U		
1,1-Dichloroethene	ug/kg					<5.7 U		
1,2,3-Trichloropropane	ug/kg					<5.7 U		
1,2,4-Trichlorobenzene	ug/kg					<380 U		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg					<5.7 U		
1,2-Dichlorobenzene	ug/kg					<380 U		
1,2-Dichloroethane	ug/kg					<5.7 U		
1,2-Dichloropropane	ug/kg					<5.7 U		
1,3-Dichlorobenzene	ug/kg					<380 U		
1,4-Dichlorobenzene	ug/kg					<380 U		
1,4-Dioxane (p-Dioxane)	ug/kg					<170 UR		
2-Chloro-1,3-butadiene	ug/kg					<5.7 U		
2-Hexanone	ug/kg					<57 U		
Acetone	ug/kg					<110 UJ		
Acetonitrile	ug/kg					<110 UR		
Acrolein	ug/kg					<110 UJ		
Acrylonitrile	ug/kg					<13 U		
Allyl Chloride (3-Chloropropene)	ug/kg					<110 U		
Benzene	ug/kg					<5.7 U		
Benzene (screening)	ug/kg	<16	<15	<15	<14		<13	<13

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S
Sample ID	1998377	1998378	1998379	1998380	1998380	1998381	1998381	1998381
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:15	11:37	11:40	11:44	11:44	11:46	11:46	11:46
Sample Depth	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	STLC	LEA	LEA	LEA
Lab. Number	197-0292	197-0293	197-0294	197-0295	A1H010261017	197-0296	197-0297	
Constituent	Units							
Bromodichloromethane	ug/kg				<5.7 U			
Bromoform	ug/kg				<5.7 U			
Bromomethane	ug/kg				<11 U			
Carbon Disulfide	ug/kg				<5.7 U			
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg				<5.7 U			
Chlorobenzene	ug/kg				<5.7 U			
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg				<11 U			
Chloroform	ug/kg				<5.7 U			
Chloromethane	ug/kg				<11 U			
Dibromochloromethane	ug/kg				<5.7 U			
Dibromomethane	ug/kg				<5.7 U			
Dichlorodifluoromethane	ug/kg				<5.7 U			
Ethyl Methacrylate	ug/kg				<5.7 U			
Ethylbenzene	ug/kg				<5.7 U			
Ethylbenzene (screening)	ug/kg	<32	<30	<30	<28		<25	<25
Iodomethane (methyl Iodide)	ug/kg					<6.9 U		
Isobutanol	ug/kg					<160 UR		
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<16	<15	<15	<14		<13	<13
Methyl Ethyl Ketone (2-Butanone)	ug/kg					<110 U		
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg					<5.7 U		
Methyl Methacrylate	ug/kg					<5.7 U		
Methylacrylonitrile	ug/kg					<5.7 U		
Methylene Chloride	ug/kg					<5.7 UJ		
Pentachlorobenzene	ug/kg					<380 U		
Pentachloroethane	ug/kg					<1800 U		
Pentachloronitrobenzene	ug/kg					<1800 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	1998322
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
Date PCBs Analyzed	-		08/13/2001					
Date Metals Analyzed	-		08/07/2001					
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/01/2001	08/11/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001
Date Physical Analyzed	-		08/07/2001					
Date Semi-volatile Organics Analyzed	-		08/10/2001					
Dinoseb	ug/kg		<1300 U					
Arsenic	mg/kg		2.4					
Barium	mg/kg		81.8					
Beryllium	mg/kg		0.53 B					
Cadmium	mg/kg		0.16 B					
Chromium, Hexavalent	mg/kg		1.4 B					
Chromium, Total	mg/kg		11.8					
Copper	mg/kg		10.3					
Lead	mg/kg		18.3					
Lead (TCLP)	mg/L							
Mercury	mg/kg		0.074 B					
Nickel	mg/kg		8.7					
Selenium	mg/kg		1.2					
Silver	mg/kg		<2.0 U					
Zinc	mg/kg		23.8					
PCB-1016 (Arochlor 1016)	ug/kg		<410 U					
PCB-1221 (Arochlor 1221)	ug/kg		<410 U					
PCB-1232 (Arochlor 1232)	ug/kg		<410 U					
PCB-1242 (Arochlor 1242)	ug/kg		<410 U					
PCB-1248 (Arochlor 1248)	ug/kg		<410 U					
PCB-1254 (Arochlor 1254)	ug/kg		<410 U					
PCB-1260 (Arochlor 1260)	ug/kg		<410 U					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg		<12 U					
2-Acetylaminofluorene	ug/kg		<6700 U					
Aramite (total)	ug/kg		<1300 U					
Dimethoate	ug/kg		<1300 U					
Disulfoton	ug/kg		<3300 U					
Famphur	ug/kg		<6700 UJ					
Hexachlorobenzene	ug/kg		<670 U					
Hexachlorocyclopentadiene	ug/kg		<3300 U					
Phorate	ug/kg		<3300 U					
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg		<3300 U					
Zinophos	ug/kg		<3300 U					
Cyanide (Total)	mg/kg		<1.0 U					
Total Petroleum Hydrocarbons EPA 418.1	mg/kg		120					
Total Solids	%		49.2					
1,2,4,5-Tetrachlorobenzene	ug/kg		<670 U					
1,3,5-Trinitrobenzene	ug/kg		<3300 U					
1,3-Dinitrobenzene	ug/kg		<670 U					
1,4-Naphthoquinone	ug/kg		<3300 U					
1-Naphthylamine	ug/kg		<670 UJ					
2,2'-Oxybis(2-chloropropane)	ug/kg		<670 U					
2,3,4,6-Tetrachlorophenol	ug/kg		<3300 U					
2,4,5-Trichlorophenol	ug/kg		<670 U					
2,4,6-Trichlorophenol	ug/kg		<670 U					
2,4-Dichlorophenol	ug/kg		<670 U					
2,4-Dimethylphenol	ug/kg		<670 U					
2,4-Dinitrophenol	ug/kg		<3300 U					
2,4-Dinitrotoluene	ug/kg		<670 U					
2,6-Dinitrotoluene	ug/kg		<670 U					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg		<670 UJ					
2-Chloronaphthalene	ug/kg		<670 U					
2-Chlorophenol	ug/kg		<670 U					
2-Methylnaphthalene	ug/kg		<670 U					
2-Methylphenol (o-Cresol)	ug/kg		<670 U					
2-Nitroaniline	ug/kg		<3300 U					
2-Nitrophenol	ug/kg		<670 U					
2-Picoline (alpha-Picoline)	ug/kg		<1300 U					
3,3'-Dichlorobenzidine	ug/kg		<3300 U					
3,3'-Dimethylbenzidine	ug/kg		<3300 U					
3-Methylcholanthrene	ug/kg		<1300 U					
3-Methylphenol	ug/kg		<670 UJ					
3-Nitroaniline	ug/kg		<3300 U					
4,6-Dinitro-2-methylphenol	ug/kg		<3300 U					
4-Aminobiphenyl (4-biphenylamine)	ug/kg		<3300 U					
4-Bromophenyl Phenyl Ether	ug/kg		<670 U					
4-Chloro-3-methylphenol	ug/kg		<670 U					
4-Chloroaniline	ug/kg		<670 U					
4-Chlorophenyl Phenyl Ether	ug/kg		<670 U					
4-Methylphenol (p-Cresol)	ug/kg		<670 U					
4-Nitroaniline	ug/kg		<3300 U					
4-Nitrophenol	ug/kg		<3300 U					
4-Nitroquinoline-n-oxide	ug/kg		<6700 UJ					
5-Nitro-o-toluidine	ug/kg		<1300 U					
7,12-Dimethylbenz(a)anthracene	ug/kg		<1300 U					
Acenaphthene	ug/kg		<670 U					
Acenaphthylene	ug/kg		<670 U					
Acetophenone	ug/kg		<670 U					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg		<670 U					
Anthracene	ug/kg		<670 U					
Benzo(a)anthracene	ug/kg		<670 U					
Benzo(a)pyrene	ug/kg		<670 U					
Benzo(b)fluoranthene	ug/kg		<670 U					
Benzo(g,h,i)perylene	ug/kg		<670 U					
Benzo(k)fluoranthene	ug/kg		<670 U					
Benzoic Acid	ug/kg		<3300 UJ					
Benzyl Alcohol	ug/kg		<670 U			.		
Benzyl Butyl Phthalate	ug/kg		<670 U					
Bis(2-chloroethoxy) Methane	ug/kg		<670 U					
Carbazole	ug/kg		<670 U					
Chrysene	ug/kg		<670 U					
Di-n-butyl Phthalate	ug/kg		<670 U					
Di-n-octylphthalate	ug/kg		<670 U					
Dibenz(a,h)anthracene	ug/kg		<670 U					
Dibenzofuran	ug/kg		<670 U					
Diethyl Phthalate	ug/kg		<670 U					
Dimethyl Phthalate	ug/kg		<670 U					
Diphenylamine	ug/kg		<670 U					
Ethyl Methanesulfonate	ug/kg		<670 U					
Fluoranthene	ug/kg		<670 U					
Fluorene	ug/kg		<670 U					
Hexachlorobutadiene	ug/kg		<670 U					
Hexachloroethane	ug/kg		<670 U					
Hexachloropropene	ug/kg		<6700 U					
Indeno(1,2,3-c,d)pyrene	ug/kg		<670 U					
Isophorone	ug/kg		<670 U					



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
	Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322
	Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
	Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35
	Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'
	Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA
	Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512
Constituent	Units							
Isosafrole	ug/kg		<1300 U					
Methapyrylene	ug/kg		<3300 U					
Methyl Methanesulfonate	ug/kg		<670 U					
Naphthalene	ug/kg		<670 U					
Nitrobenzene	ug/kg		<670 U					
Nitrosomethylethylamine	ug/kg		<670 U					
Pentachlorophenol	ug/kg		<670 U					
Phenacetin	ug/kg		<1300 U					
Phenanthrene	ug/kg		<670 U					
Phenol	ug/kg		<670 U					
Pronamide	ug/kg		<1300 U					
Pyrene	ug/kg		<670 U					
Pyridine	ug/kg		<1300 U					
Safrole	ug/kg		<1300 U					
alpha,alpha-Dimethylphenethylamine	ug/kg		<3300 U					
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg		<670 U					
bis(2-ethylhexyl) Phthalate	ug/kg		<670 U					
n-Nitroso-di-n-butylamine	ug/kg		<670 U					
n-Nitrosodi-n-propylamine	ug/kg		<670 U					
n-Nitrosodiethylamine	ug/kg		<670 U					
n-Nitrosodimethylamine	ug/kg		<670 U					
n-Nitrosodiphenylamine	ug/kg		<670 U					
n-Nitrosomorpholine	ug/kg		<670 UJ					
n-Nitrosopiperidine	ug/kg		<670 U					
n-Nitrosopyrrolidine	ug/kg		<670 U					
o,o,o-Triethyl Phosphorothioate	ug/kg		<3300 U					
o-Toluidine	ug/kg		<1300 U					
p-Dimethylaminoazobenzene	ug/kg		<1300 U					

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
p-Phenylenediamine	ug/kg		<6700 U					
trans-1,4-Dichloro-2-butene	ug/kg		<10 U					
1,1,1,2-Tetrachloroethane	ug/kg		<10 U					
1,1,1-Trichloroethane	ug/kg		<10 U					
1,1,1-Trichloroethane (screening)	ug/kg	<310		<300	<250	<250	<270	<270
1,1,2,2-Tetrachloroethane	ug/kg		<10 U					
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg		<10 U					
1,1,2-Trichloroethane	ug/kg		<10 U					
1,1-Dichloroethane	ug/kg		<10 U					
1,1-Dichloroethene	ug/kg		<10 U					
1,2,3-Trichloropropane	ug/kg		<10 U					
1,2,4-Trichlorobenzene	ug/kg		<670 U					
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg		<10 U					
1,2-Dichlorobenzene	ug/kg		<670 U					
1,2-Dichloroethane	ug/kg		<10 U					
1,2-Dichloropropane	ug/kg		<10 U					
1,3-Dichlorobenzene	ug/kg		<670 U					
1,4-Dichlorobenzene	ug/kg		<670 U					
1,4-Dioxane (p-Dioxane)	ug/kg		<310 UR					
2-Chloro-1,3-butadiene	ug/kg		<10 U					
2-Hexanone	ug/kg		<100 U					
Acetone	ug/kg		140 J					
Acetonitrile	ug/kg		<200 UR					
Acrolein	ug/kg		<200 UJ					
Acrylonitrile	ug/kg		<22 U					
Allyl Chloride (3-Chloropropene)	ug/kg		<200 U					
Benzene	ug/kg		<10 U					
Benzene (screening)	ug/kg	<15		<15	<13	<13	<27	<27

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-36S	WT-GW-37S	WT-GW-37S
Sample ID	1998382	1998382	1998383	1998384	1998385	1998321	1998322	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	11:55	11:55	11:58	12:05	12:07	13:25	13:35	
Sample Depth	16' - 18'	16' - 18'	18' - 20'	20' - 22'	22' - 24'	0' - 2'	2' - 4'	
Laboratory	LEA	STLC	LEA	LEA	LEA	LEA	LEA	
Lab. Number	197-0298	A1H010261019	197-0299	197-0300	197-0301	35052-0511	35052-0512	
Constituent	Units							
Bromodichloromethane	ug/kg		<10 U					
Bromoform	ug/kg		<10 U					
Bromomethane	ug/kg		<20 U					
Carbon Disulfide	ug/kg		<10 U					
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg		<10 U					
Chlorobenzene	ug/kg		<10 U					
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg		<20 U					
Chloroform	ug/kg		<10 U					
Chloromethane	ug/kg		<20 U					
Dibromochloromethane	ug/kg		<10 U					
Dibromomethane	ug/kg		<10 U					
Dichlorodifluoromethane	ug/kg		<10 U					
Ethyl Methacrylate	ug/kg		<10 U					
Ethylbenzene	ug/kg		<10 U					
Ethylbenzene (screening)	ug/kg	<31		<30	<25	<25	<27	<27
Iodomethane (methyl Iodide)	ug/kg		<12 U					
Isobutanol	ug/kg		<280 UR					
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<15		<15	<13	<13	<40	<41
Methyl Ethyl Ketone (2-Butanone)	ug/kg		45 J					
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg		<10 U					
Methyl Methacrylate	ug/kg		<10 U					
Methylacrylonitrile	ug/kg		<10 U					
Methylene Chloride	ug/kg		<10 UJ					
Pentachlorobenzene	ug/kg		<670 U					
Pentachloroethane	ug/kg		<3300 U					
Pentachloronitrobenzene	ug/kg		<3300 U					

Table 4
SUMMARY OF ANALYTICAL RESULTS



Loureiro Engineering Associates, Inc.

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
Date PCBs Analyzed	-						08/13/2001	
Date Metals Analyzed	-						08/07/2001	
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001	08/10/2001	08/01/2001
Date Physical Analyzed	-						08/07/2001	
Date Semi-volatile Organics Analyzed	-						08/10/2001	
Dinoseb	ug/kg						<760 U	
Arsenic	mg/kg						4.2	
Barium	mg/kg						25.3	
Beryllium	mg/kg						0.26 B	
Cadmium	mg/kg						0.14 B	
Chromium, Hexavalent	mg/kg						<1.2 U	
Chromium, Total	mg/kg						6.2	
Copper	mg/kg						18.4	
Lead	mg/kg						35.0	
Lead (TCLP)	mg/L							
Mercury	mg/kg						0.042 B	
Nickel	mg/kg						6.4	
Selenium	mg/kg						<0.58 U	
Silver	mg/kg						<1.2 U	
Zinc	mg/kg						26.7	
PCB-1016 (Arochlor 1016)	ug/kg						<230 U	
PCB-1221 (Arochlor 1221)	ug/kg						<230 U	
PCB-1232 (Arochlor 1232)	ug/kg						<230 U	
PCB-1242 (Arochlor 1242)	ug/kg						<230 U	
PCB-1248 (Arochlor 1248)	ug/kg						<230 U	
PCB-1254 (Arochlor 1254)	ug/kg						<230 U	
PCB-1260 (Arochlor 1260)	ug/kg						<230 U	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
1,2-Dibromo-3-chloropropane	ug/kg					<6.9 U		
2-Acetylaminofluorene	ug/kg					<3800 U		
Aramite (total)	ug/kg					<760 U		
Dimethoate	ug/kg					<760 U		
Disulfoton	ug/kg					<1800 U		
Famphur	ug/kg					<3800 UJ		
Hexachlorobenzene	ug/kg					<380 U		
Hexachlorocyclopentadiene	ug/kg					<1800 U		
Phorate	ug/kg					<1800 U		
Thiodiphosphoric Acid Tetraethyl Ester	ug/kg					<1800 U		
Zinophos	ug/kg					<1800 U		
Cyanide (Total)	mg/kg					<0.58 U		
Total Petroleum Hydrocarbons EPA 418.1	mg/kg					120		
Total Solids	%					86.5		
1,2,4,5-Tetrachlorobenzene	ug/kg					<380 U		
1,3,5-Trinitrobenzene	ug/kg					<1800 U		
1,3-Dinitrobenzene	ug/kg					<380 U		
1,4-Naphthoquinone	ug/kg					<1800 U		
1-Naphthylamine	ug/kg					<380 UJ		
2,2'-Oxybis(2-chloropropane)	ug/kg					<380 U		
2,3,4,6-Tetrachlorophenol	ug/kg					<1800 U		
2,4,5-Trichlorophenol	ug/kg					<380 U		
2,4,6-Trichlorophenol	ug/kg					<380 U		
2,4-Dichlorophenol	ug/kg					<380 U		
2,4-Dimethylphenol	ug/kg					<380 U		
2,4-Dinitrophenol	ug/kg					<1800 U		
2,4-Dinitrotoluene	ug/kg					<380 U		
2,6-Dinitrotoluene	ug/kg					<380 U		



Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data

Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
2-Aminonaphthalene (beta Naphthylamine)	ug/kg					<380 UJ		
2-Chloronaphthalene	ug/kg					<380 U		
2-Chlorophenol	ug/kg					<380 U		
2-Methylnaphthalene	ug/kg					<380 U		
2-Methylphenol (o-Cresol)	ug/kg					<380 U		
2-Nitroaniline	ug/kg					<1800 U		
2-Nitrophenol	ug/kg					<380 U		
2-Picoline (alpha-Picoline)	ug/kg					<760 U		
3,3'-Dichlorobenzidine	ug/kg					<1800 U		
3,3'-Dimethylbenzidine	ug/kg					<1800 U		
3-Methylcholanthrene	ug/kg					<760 U		
3-Methylphenol	ug/kg					<380 UJ		
3-Nitroaniline	ug/kg					<1800 U		
4,6-Dinitro-2-methylphenol	ug/kg					<1800 U		
4-Aminobiphenyl (4-biphenylamine)	ug/kg					<1800 U		
4-Bromophenyl Phenyl Ether	ug/kg					<380 U		
4-Chloro-3-methylphenol	ug/kg					<380 U		
4-Chloroaniline	ug/kg					<380 U		
4-Chlorophenyl Phenyl Ether	ug/kg					<380 U		
4-Methylphenol (p-Cresol)	ug/kg					<380 U		
4-Nitroaniline	ug/kg					<1800 U		
4-Nitrophenol	ug/kg					<1800 U		
4-Nitroquinoline-n-oxide	ug/kg					<3800 UJ		
5-Nitro-o-toluidine	ug/kg					<760 U		
7,12-Dimethylbenz(a)anthracene	ug/kg					<760 U		
Acenaphthene	ug/kg					<380 U		
Acenaphthylene	ug/kg					170 J		
Acetophenone	ug/kg					<380 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998327	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:50	14:51
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
Aniline (phenylamine, Aminobenzene)	ug/kg					<380 U		
Anthracene	ug/kg					91 J		
Benzo(a)anthracene	ug/kg					650		
Benzo(a)pyrene	ug/kg					870		
Benzo(b)fluoranthene	ug/kg					1100		
Benzo(g,h,i)perylene	ug/kg					590		
Benzo(k)fluoranthene	ug/kg					540		
Benzoic Acid	ug/kg					<1800 UJ		
Benzyl Alcohol	ug/kg					<380 U		
Benzyl Butyl Phthalate	ug/kg					<380 U		
Bis(2-chloroethoxy) Methane	ug/kg					<380 U		
Carbazole	ug/kg					<380 U		
Chrysene	ug/kg					800		
Di-n-butyl Phthalate	ug/kg					<380 U		
Di-n-octylphthalate	ug/kg					<380 U		
Dibenz(a,h)anthracene	ug/kg					170 J		
Dibenzofuran	ug/kg					<380 U		
Diethyl Phthalate	ug/kg					<380 U		
Dimethyl Phthalate	ug/kg					<380 U		
Diphenylamine	ug/kg					<380 U		
Ethyl Methanesulfonate	ug/kg					<380 U		
Fluoranthene	ug/kg					1200		
Fluorene	ug/kg					<380 U		
Hexachlorobutadiene	ug/kg					<380 U		
Hexachloroethane	ug/kg					<380 U		
Hexachloropropene	ug/kg					<3800 U		
Indeno(1,2,3-c,d)pyrene	ug/kg					530		
Isophorone	ug/kg					<380 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	14:51
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
Isosafrole	ug/kg					<760 U		
Methapyrilene	ug/kg					<1800 U		
Methyl Methanesulfonate	ug/kg					<380 U		
Naphthalene	ug/kg					<380 U		
Nitrobenzene	ug/kg					<380 U		
Nitrosomethylethylamine	ug/kg					<380 U		
Pentachlorophenol	ug/kg					<380 U		
Phenacetin	ug/kg					<760 U		
Phenanthrene	ug/kg					380		
Phenol	ug/kg					<380 U		
Pronamide	ug/kg					<760 U		
Pyrene	ug/kg					1200		
Pyridine	ug/kg					<760 U		
Safrole	ug/kg					<760 U		
alpha,alpha-Dimethylphenethylamine	ug/kg					<1800 U		
bis(2-chloroethyl) Ether (2-chloroethyl	ug/kg					<380 U		
bis(2-ethylhexyl) Phthalate	ug/kg					<380 U		
n-Nitroso-di-n-butylamine	ug/kg					<380 U		
n-Nitrosodi-n-propylamine	ug/kg					<380 U		
n-Nitrosodiethylamine	ug/kg					<380 U		
n-Nitrosodimethylamine	ug/kg					<380 U		
n-Nitrosodiphenylamine	ug/kg					<380 U		
n-Nitrosomorpholine	ug/kg					<380 UJ		
n-Nitrosopiperidine	ug/kg					<380 U		
n-Nitrosopyrrolidine	ug/kg					<380 U		
o,o,o-Triethyl Phosphorothioate	ug/kg					<1800 U		
o-Toluidine	ug/kg					<760 U		
p-Dimethylaminoazobenzene	ug/kg					<760 U		

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	14:51
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
p-Phenylenediamine	ug/kg						<3800 U	
trans-1,4-Dichloro-2-butene	ug/kg						<5.8 U	
1,1,1,2-Tetrachloroethane	ug/kg						<5.8 U	
1,1,1-Trichloroethane	ug/kg						<5.8 U	
1,1,1-Trichloroethane (screening)	ug/kg	<270	<300	<300	<280	<270		<260
1,1,2,2-Tetrachloroethane	ug/kg						<5.8 U	
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg						<5.8 U	
1,1,2-Trichloroethane	ug/kg						<5.8 U	
1,1-Dichloroethane	ug/kg						<5.8 U	
1,1-Dichloroethene	ug/kg						<5.8 U	
1,2,3-Trichloropropane	ug/kg						<5.8 U	
1,2,4-Trichlorobenzene	ug/kg						<380 U	
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg						<5.8 U	
1,2-Dichlorobenzene	ug/kg						<380 U	
1,2-Dichloroethane	ug/kg						<5.8 U	
1,2-Dichloropropane	ug/kg						<5.8 U	
1,3-Dichlorobenzene	ug/kg						<380 U	
1,4-Dichlorobenzene	ug/kg						<380 U	
1,4-Dioxane (p-Dioxane)	ug/kg						<170 UR	
2-Chloro-1,3-butadiene	ug/kg						<5.8 U	
2-Hexanone	ug/kg						<58 U	
Acetone	ug/kg						<120 UJ	
Acetonitrile	ug/kg						<120 UR	
Acrolein	ug/kg						<120 UJ	
Acrylonitrile	ug/kg						<13 U	
Allyl Chloride (3-Chloropropene)	ug/kg						<120 U	
Benzene	ug/kg						<5.8 U	
Benzene (screening)	ug/kg	<27	<30	<30	<28	<27		<26

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998328	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	14:51
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	14' - 16'
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
Bromodichloromethane	ug/kg					<5.8 U		
Bromoform	ug/kg					<5.8 U		
Bromomethane	ug/kg					<12 U		
Carbon Disulfide	ug/kg					<5.8 U		
Carbon Disulfide (screening)	ug/kg							
Carbon Tetrachloride	ug/kg					<5.8 U		
Chlorobenzene	ug/kg					<5.8 U		
Chlorobenzene (screening)	ug/kg							
Chloroethane	ug/kg					<12 U		
Chloroform	ug/kg					<5.8 U		
Chloromethane	ug/kg					<12 U		
Dibromochloromethane	ug/kg					<5.8 U		
Dibromomethane	ug/kg					<5.8 U		
Dichlorodifluoromethane	ug/kg					<5.8 U		
Ethyl Methacrylate	ug/kg					<5.8 U		
Ethylbenzene	ug/kg					<5.8 U		
Ethylbenzene (screening)	ug/kg	<27	<30	<30	<28	<27		<26
Iodomethane (methyl Iodide)	ug/kg						<6.9 U	
Isobutanol	ug/kg						<160 UR	
M,p-xylene (sum Of Isomers) (screening)	ug/kg	<41	<45	<45	<41	<41		<39
Methyl Ethyl Ketone (2-Butanone)	ug/kg						<120 U	
Methyl Isobutyl Ketone (4-methyl-2-penta	ug/kg						<5.8 U	
Methyl Methacrylate	ug/kg						<5.8 U	
Methylacrylonitrile	ug/kg						<5.8 U	
Methylene Chloride	ug/kg						<5.8 UJ	
Pentachlorobenzene	ug/kg						<380 U	
Pentachloroethane	ug/kg						<1800 U	
Pentachloronitrobenzene	ug/kg						<1800 U	

Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S
Sample ID	1998323	1998324	1998325	1998326	1998327	1998327	1998327	1998328
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001	07/31/2001
Sample Time	13:45	13:55	14:30	14:31	14:50	14:50	14:51	
Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 16'	
Laboratory	LEA	LEA	LEA	LEA	LEA	STLC	LEA	
Lab. Number	35052-0513	35052-0514	35052-0515	35052-0516	35052-0517	A1H010261041	35052-0518	
Constituent	Units							
Propane Nitrile (propionitrile)	ug/kg						<9.2 U	
Styrene	ug/kg						<5.8 U	
Tetrachloroethylene (PCE)	ug/kg						<5.8 U	
Tetrachloroethylene (PCE) (screening)	ug/kg	<27	<30	<30	<28	<27		<26
Toluene	ug/kg						<5.8 U	
Toluene (screening)	ug/kg	<27	<30	<30	<28	<27		<26
Total 1,3-dichloropropene (cis and trans)	ug/kg						<5.8 U	
Trichloroethylene (TCE)	ug/kg						<5.8 U	
Trichloroethylene (TCE) (screening)	ug/kg	<27	<30	<30	<28	<27		<26
Trichlorofluoromethane	ug/kg						<12 U	
Vinyl Acetate	ug/kg						<5.8 UJ	
Vinyl Chloride	ug/kg						<12 U	
Xylenes	ug/kg						<5.8 U	
cis-1,2-Dichloroethylene	ug/kg						<5.8 U	
cis-1,2-Dichloroethylene (screening)	ug/kg							
o-Xylene (1,2-dimethylbenzene) (screenin	ug/kg	<27	<30	<30	<28	<27		<26
tert-Butyl Methyl Ether	ug/kg						<5.8 U	
trans-1,2-Dichloroethene	ug/kg						<5.8 U	
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Table 4
SUMMARY OF ANALYTICAL RESULTS
Pratt & Whitney, East Hartford, CT: Step 4 Investigation - Soils Data



Loureiro Engineering Associates, Inc.

	Location ID	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-37S	WT-GW-38S	WT-GW-38S	WT-GW-38S
Sample ID	1998329	1998329	1998329	1998330	1998332	1998333	1998334	
Sample Date	07/31/2001	07/31/2001	07/31/2001	07/31/2001	08/01/2001	08/01/2001	08/01/2001	08/01/2001
Sample Time	15:55	15:55	15:55	15:56	13:15	13:16	13:25	
Sample Depth	16' - 18'	16' - 18'	16' - 18'	18' - 20'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	LEA	STLC	LEA	LEA	LEA	LEA	
Lab. Number	35052-0519	35052-0520	A1H010261043	35052-0521	197-0336	197-0337	197-0338	
Constituent	Units							
Date PCBs Analyzed	-			08/13/2001				
Date Metals Analyzed	-			08/07/2001				
Date of Metals TCLP Analysis	-							
Date Organics Analyzed	-	08/01/2001	08/01/2001	08/10/2001	08/01/2001	08/02/2001	08/02/2001	08/02/2001
Date Physical Analyzed	-			08/07/2001				
Date Ssemi-volatile Organics Analyzed	-			08/10/2001				
Dinoseb	ug/kg			<830 U				
Arsenic	mg/kg			2.8				
Barium	mg/kg			17.8 B				
Beryllium	mg/kg			0.42 B				
Cadmium	mg/kg			0.21 B				
Chromium, Hexavalent	mg/kg			<1.3 U				
Chromium, Total	mg/kg			5.4				
Copper	mg/kg			34.1				
Lead	mg/kg			7.7				
Lead (TCLP)	mg/L							
Mercury	mg/kg			0.74				
Nickel	mg/kg			10.2				
Selenium	mg/kg			0.70				
Silver	mg/kg			<1.3 U				
Zinc	mg/kg			7.5				
PCB-1016 (Arochlor 1016)	ug/kg			<250 U				
PCB-1221 (Arochlor 1221)	ug/kg			<250 U				
PCB-1232 (Arochlor 1232)	ug/kg			<250 U				
PCB-1242 (Arochlor 1242)	ug/kg			<250 U				
PCB-1248 (Arochlor 1248)	ug/kg			<250 U				
PCB-1254 (Arochlor 1254)	ug/kg			<250 U				
PCB-1260 (Arochlor 1260)	ug/kg			<250 U				